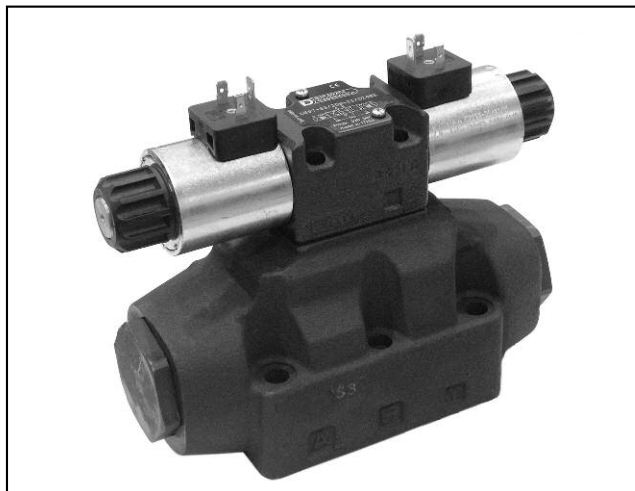


DSP7

PILOT OPERATED DISTRIBUTOR SOLENOID OR HYDRAULIC (DSC7) CONTROLLED

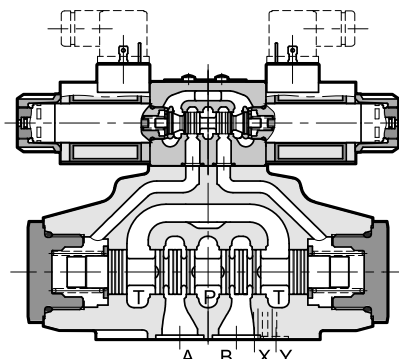
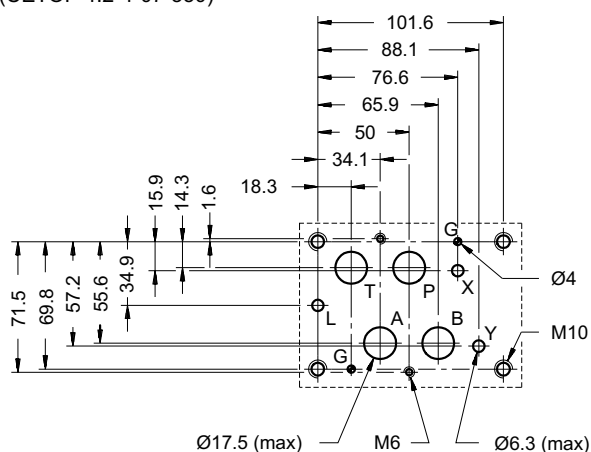


SUBPLATE MOUNTING ISO 4401-07

p max 350 bar
Q max 300 l/min

MOUNTING SURFACE

ISO 4401-07-07-0-05
(CETOP 4.2-4-07-350)



- The DSP7 piloted valve is made up of a 4-way hydro-piloted distributor with mounting surface according to ISO 4401-07 standards, operated by an ISO 4401-03 solenoid directional valve.
- It is available with different spool types (see par. 2), with some options for the opening control.
- It is available with both the solenoid and the hydraulic control from the X and Y ways.
- A version for high pressures (H) is available.
- It is available also with zinc-nickel surface treatments, that ensures a salt spray resistance up to 600 hours.

PERFORMANCES

(obtained with mineral oil of viscosity of 36 cSt at 50°C)

| | | DSP7 | DSP7H |
|---|---|-----------------------------------|-----------------------------------|
| Maximum operating pressure - ports P - A - B - port T (external drainage) - port T (internal drainage) | bar | 350 250 210 (DC) / 160 (AC) | 420 350 210 (DC) / 160 (AC) |
| Maximum flow rate from port P to A - B - T | l/min | 300 | |
| Ambient temperature range | °C | -20 / +50 | |
| Fluid temperature range | °C | -20 / +80 | |
| Fluid viscosity range | cSt | 10 ÷ 400 | |
| Fluid contamination degree | according to ISO 4406:1999 class 20/18/15 | | |
| Recommended viscosity | cSt | 25 | |
| Mass: DSP7-S, RK DSP7-T*, SA*, SB* DSC7 | kg | 8,6 8,0 6,6 | |

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

1 - IDENTIFICATION CODE FOR DSP7 SOLENOID VALVES

| | | | | | | | | | | | |
|---|---|---|---|---|---|----|---|---|---|---|---|
| D | S | P | 7 | - | / | 20 | - | / | / | / | / |
|---|---|---|---|---|---|----|---|---|---|---|---|

Directional valve,
Solenoid controlled,
Pilot operated

Size: _____
ISO 4401-07

Option: _____
(omit for standard version)
H = high pressure version
pmax = 420 bar

Spool type (see paragraph 2) _____

| | |
|------------|-----------|
| S* | TA |
| SA* | TB |
| SB* | RK |

Series: (the overall and mounting dimensions remain unchanged from 20 to 29)

Seals: _____

N = NBR seals for mineral oil (**standard**)
V = FPM seals for special fluids

Piloting (see paragraph 9): _____

- I** = internal (not available for spools S2 - S4 - S7 - S8 - TA02 - TB02 RK02 - S*2 - S*4. If internal pilot is required, choose pilot type C)
- C** = internal piloting with backpressure valve
- Z** = internal piloting with 30 bar fixed adjustment pressure reducing valve (see paragraph 8)
- E** = external

Drainage (see paragraph 9): _____

I = Internal
E = External

Control options (see paragraph 11): _____

- C** = Main spool stroke control
- D** = Main spool switching speed control
- P08** = Subplate placed under solenoid valve with restrictor of Ø0.8 on port P
- S2** = Distributor delivered with pilot solenoid valve with spool S2

Option:
/ W7 = Zinc-nickel surface treatment (see **NOTE 2**)
Omit if not required

Manual override:
omit for override integrated in the tube (**standard**)
CM = manual override, boot protected (see paragraph 17)

Coil electrical connection (see par. 15):
K1 = plug for connector type EN 175301-803 (ex DIN 43650) (**standard**)
K7 = plug DEUTSCH DT04-2P for male connector type DEUTSCH DT06-2S (available on D12 and D24 coils only)

Power supply (see paragraph 10)

direct current

D12 = 12 V
D24 = 24 V
D48 = 48 V
D110 = 110 V
D220 = 220 V
D00 = valve without coils (see **NOTE 1**)

alternate current

A24 = 24 V - 50 Hz
A48 = 48 V - 50 Hz
A110 = 110 V - 50 Hz / 120 V - 60 Hz
A230 = 230 V - 50 Hz / 240 V - 60 Hz
A00 = valve without coils (see **NOTE 1**)
F110 = 110 V - 60 Hz
F220 = 220 V - 60 Hz

NOTE 1: Coils locking ring and related OR are supplied together with valves.

NOTE 2: The standard valve is supplied with surface treatment of phosphating black.

The zinc-nickel finishing on the valve body (both main and pilot) makes the valve suitable to ensure a salt spray resistance up to **240** hours (test operated according to UNI EN ISO 9227 standards and test evaluation operated according to UNI EN ISO 10289 standards).

For a salt spray resistance up to **600** hours refer to paragraph 1.1.

1.1 - High corrosion resistance version

This version, available for the basic valve (without option of par. 13) features the zinc-nickel coating on all exposed metal parts of the valve, making it resistant to exposure to the salt spray for **600 hours** (test performed according to UNI EN ISO 9227 and assessment test performed according to UNI EN ISO 10289).

The coil are DC only and specific for this version, featuring a zinc-nickel surface treatment. The coil for DEUTSCH connector has a diode inside. Electrical features at paragraph 10.2. The boot manual override (CM) is installed as standard in order to protect the solenoid tube.

Follow the identification code below to order it

| | | | |
|--|---|---|-------------------------|
| <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> DSP7.... </div> <p>Choices as in standard identification code</p> <p>DC power supply _____</p> <p>D12 = 12 V D24 = 24 V</p> | / | / | / CM / W7 |
| <div style="display: flex; justify-content: space-between;"> <div> <p>Manual override, boot protected</p> </div> <div> <p>Coil electrical connection (see par. 15)</p> <p>WK1 = plug for connector type EN 175301-803 (ex DIN 43650)</p> <p>WK7D = plug DEUTSCH DT04-2P, for male connector type DEUTSCH DT06-2S. Coil with diode.</p> </div> </div> | | | |

2 - SPOOL TYPE FOR DSP7

| | | |
|---|--|--|
| <p>Type S*: 2 solenoids - 3 positions with spring centring</p> <div style="text-align: center;"> </div> <p>S1 </p> <p>S2 </p> <p>S3 </p> <p>S4 </p> <p>S6 </p> <p>S7 </p> <p>S8 </p> <p>S9 </p> <p>S10 </p> <p>S11 </p> <p>S12 </p> <p>S20 </p> <p>S21 </p> | <p>Type SA*: 1 solenoid side A 2 positions (central + external) with spring centring</p> <div style="text-align: center;"> </div> <p>SA1 </p> <p>SA2 </p> <p>SA3 </p> <p>SA4 </p> | <p>Type SB*: 1 solenoid side B 2 positions (central + external) with spring centring</p> <div style="text-align: center;"> </div> <p>SB1 </p> <p>SB2 </p> <p>SB3 </p> <p>SB4 </p> |
| <p>Type RK: 2 solenoids - 2 positions with mechanical retention</p> <div style="text-align: center;"> </div> <p>RK </p> <p>RK02 </p> | <p>Type TA: 1 solenoid side A 2 external positions with return spring</p> <div style="text-align: center;"> </div> <p>TA </p> <p>TA02 </p> | <p>Type TB: 1 solenoid side B 2 external positions with return spring</p> <div style="text-align: center;"> </div> <p>TB </p> <p>TB02 </p> |
| <p>Type 23TA / 23TB three-way valve - 1 solenoid - 2 external positions, return spring</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>23TA</p> </div> <div style="text-align: center;"> <p>23TB</p> </div> </div> | | |

Besides the diagrams shown, special versions are available: consult our technical dept. for their identification, feasibility and operating limits.

3 - IDENTIFICATION CODE AND SPOOL TYPE FOR DSC7 - HYDRAULIC OPERATED VALVE

| | | | | | | | | | | | | | |
|---|---|---|---|--|---|--|---|----|--|---|---|---|--|
| D | S | C | 7 | | - | | / | 10 | | - | E | E | |
|---|---|---|---|--|---|--|---|----|--|---|---|---|--|

Directional valve, hydraulic controlled pilot operated through X and Y ports.

Size: ISO 4401-07

Option: (omit for standard version)
H = high pressure version
 pmax = 420 bar

Spool type (see paragraph 2 and below)

| | |
|------------|-----------|
| S* | TA |
| SA* | TB |
| SB* | R |

Option:
 / **W7** = Zinc-nickel surface treatment (see **NOTE**)
 Omit if not required

External drain (see par. 9)

External pilot (see par. 9)

Seals:
N = NBR seals for mineral oil (**standard**)
V = FPM seals for special fluids

Series: (the overall and mounting dimensions remain unchanged from 10 to 19)

Spool type

The distributor is delivered with short-circuit subplate. The X and Y ports are used for the hydraulic control of the valve.

DSC7-S*

DSC7-TA

DSC7-TB

NOTE : The standard valve is supplied with surface treatment of phosphating black.

The zinc-nickel finishing makes the valve suitable to ensure a salt spray resistance up to **600** hours. (test operated according to UNI EN ISO 9227 standards and test evaluation operated according to UNI EN ISO 10289 standards).

4 - HYDRAULIC FLUIDS

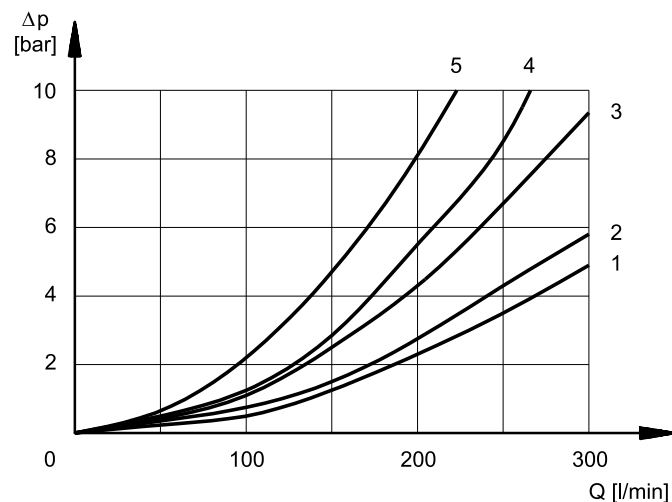
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code N). For fluids HFDR type (phosphate esters) use FPM seals (code V).

For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 80 °C causes a faster degradation of the fluid and of the seals characteristics.

The fluid must be preserved in its physical and chemical characteristics.

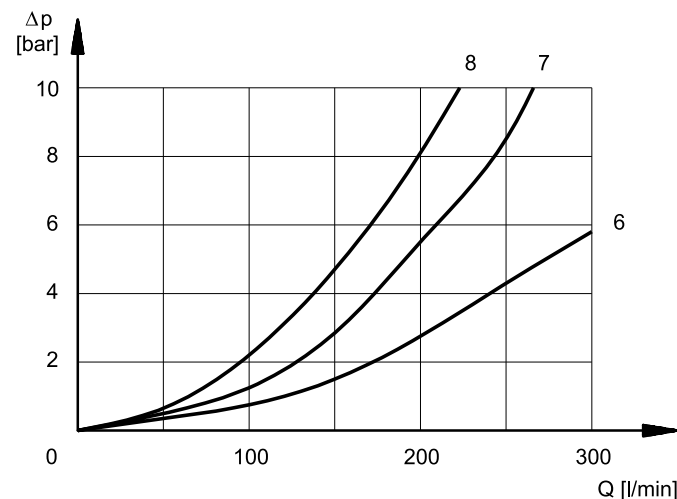
5 - PRESSURE DROPS ΔP -Q

(values obtained with viscosity 36 cSt at 50 °C)



PRESSURE DROPS WITH VALVE ENERGIZED

| SPOOL TYPE | FLOW DIRECTION | | | |
|--------------|-----------------|-----|-----|-----|
| | P-A | P-B | A-T | B-T |
| | CURVES ON GRAPH | | | |
| S1, SA1, SB1 | 1 | 1 | 3 | 4 |
| S2, SA2, SB2 | 1 | 1 | 4 | 4 |
| S3, SA3, SB3 | 1 | 1 | 4 | 4 |
| S4, SA4, SB4 | 2 | 2 | 4 | 5 |
| S6 | 1 | 1 | 3 | 4 |
| S7 | 1 | 1 | 4 | 4 |
| S8 | 1 | 1 | 3 | 4 |
| S9 | 1 | 1 | 3 | 4 |
| S10 | 1 | 1 | 3 | 4 |
| S11 | 1 | 1 | 3 | 4 |
| S12 | 1 | 1 | 3 | 4 |
| S20 | 1 | 1 | 3 | 4 |
| S21 | 1 | 1 | 4 | 4 |
| TA, TB | 1 | 1 | 3 | 4 |
| TA02, TB 02 | 1 | 1 | 4 | 4 |
| RK | 1 | 1 | 3 | 4 |



PRESSURE DROPS WITH VALVE IN DE-ENERGIZED POSITION

| SPOOL TYPE | FLOW DIRECTION | | | | |
|--------------|-----------------|-----|-----|-----|-----|
| | P-A | P-B | A-T | B-T | P-T |
| | CURVES ON GRAPH | | | | |
| S2, SA2, SB2 | | | | | 6 |
| S3, SA3, SB3 | | | 7 | 7 | |
| S4, SA4, SB4 | | | | | 7 |
| S6 | | | | 7 | |
| S7 | | | | | 8 |
| S8 | | | | | 8 |
| S10 | | | 7 | 7 | |
| S11 | | | 7 | | |

6 - SWITCHING TIMES

The values indicated refer to a solenoid valve working with piloting pressure of 100 bar, with mineral oil at a temperature of 50°C, at viscosity of 36 cSt and with PA and BT connections. The energizing and de-energizing times are obtained at the pressure variation which occurs on the lines.

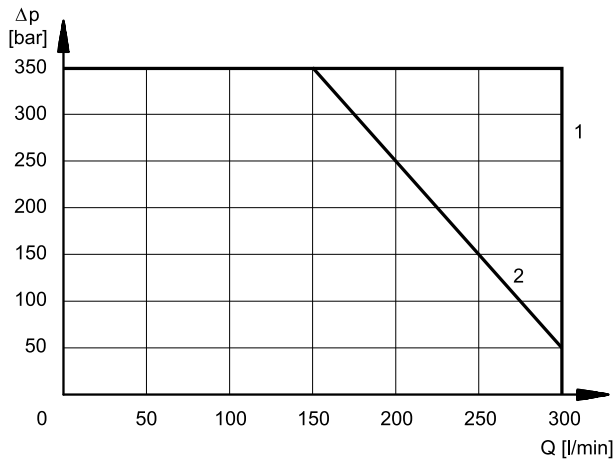
| TIMES (± 10%) [ms] | ENERGIZED | | DE-ENERGIZED | |
|-----------------------|-----------|--------|--------------|--------|
| | 2 Pos. | 3 Pos. | 2 Pos. | 3 Pos. |
| AC solenoid | 45 | 30 | 45 | 30 |
| DC solenoid | 75 | 60 | 60 | 45 |

7 - OPERATING LIMITS

The curves define the flow rate operating fields according to the valve pressure for the different spool types.

The values have been obtained according to ISO 6403 norm with solenoids at rated temperature and supplied with voltage equal to 90% of the nominal voltage.

The values have been obtained with mineral oil, viscosity 36 cSt at 50 °C, and filtration ISO 4406:1999 class 18/16/13.



| SPOOL | CURVE | |
|--------------|-------|-----|
| | P→A | P→B |
| S1,SA1,SB1 | 1 | 1 |
| S2, SA2, SB2 | 1 | 1 |
| S3, SA3, SB3 | 1 | 1 |
| S4, SA4, SB4 | 2 | 2 |
| S6 | 1 | 1 |
| S7 | 2 | 2 |
| S8 | 2 | 2 |
| S9 | 1 | 1 |
| S10 | 1 | 1 |
| S11 | 1 | 1 |
| S12 | 1 | 1 |
| S20 | 1 | 1 |
| S21 | 1 | 1 |

| SPOOL | CURVE | |
|------------|-------|-----|
| | P→A | P→B |
| TA, TB | 1 | 1 |
| TA02, TB02 | 1 | 1 |
| 23TA, 23TB | 1 | 1 |
| RK | 1 | 1 |

8 - PERFORMANCE CHARACTERISTICS

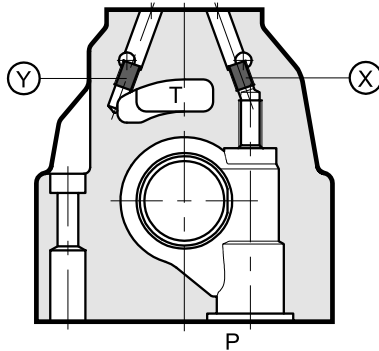
| PRESSURES [bar] | DSP7 | DSP7H | DSC7 | DSC7H |
|---|----------------------|----------------------|------|-------|
| Max pressure in P, A, B ports | 350 | 420 | 350 | 420 |
| Max pressure in T line with external drainage | 250 | 350 | 250 | 350 |
| Max pressure in T line with internal drainage | 210 (DC) 160 (AC) | 210 (DC) 160 (AC) | - | - |
| Max pressure in Y line with external drainage | 210 (DC) 160 (AC) | 210 (DC) 160 (AC) | - | - |
| Min piloting pressure NOTE 1 | 5 ÷ 12 | | | |
| Max piloting pressure NOTE 2 | 210 | 350 | 210 | 420 |

NOTE 1 minimum piloting pressure can be the lower range value at low flows rates, but with higher flow rates the higher value is needed.

NOTE 2 If the valve operates at higher pressures it is necessary to use the version with external pilot and reduced pressure. Otherwise, the valve can be ordered with internal pilot and pressure reducing valve with 30 bar fixed adjustment (pilot type Z, see identification code)

9 - PILOTING AND DRAINAGE

The DSP7 valves are available with piloting and drainage, both internal and external. The version with external drainage allows for a higher back pressure on the outlet.



X: plug M6x8 for external pilot
Y: plug M6x8 for external drain

| | TYPE OF VALVE | Plug assembly | |
|----|-----------------------------------|---------------|-----|
| | | X | Y |
| IE | INTERNAL PILOT AND EXTERNAL DRAIN | NO | YES |
| II | INTERNAL PILOT AND INTERNAL DRAIN | NO | NO |
| EE | EXTERNAL PILOT AND EXTERNAL DRAIN | YES | YES |
| EI | EXTERNAL PILOT AND INTERNAL DRAIN | YES | NO |

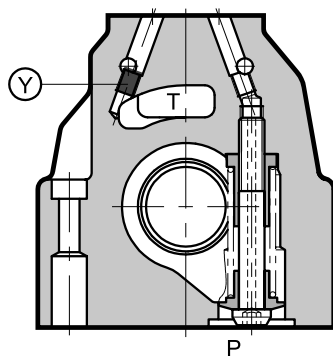
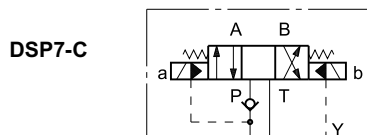
9.1 - Backpressure valve incorporated on line P

Valves DSP7 are available upon request with backpressure valve incorporated on line P. This is necessary to obtain the piloting pressure when the control valve, in rest position, has the line P connected to the T port (spools S2, S4, S7, S8, S*2, S*4, TA02, TB02, RK02). The cracking pressure is of 5 bar with a minimum flow rate of 15 l/min.

Add **C** to the identification code for this request (see paragraph 1).

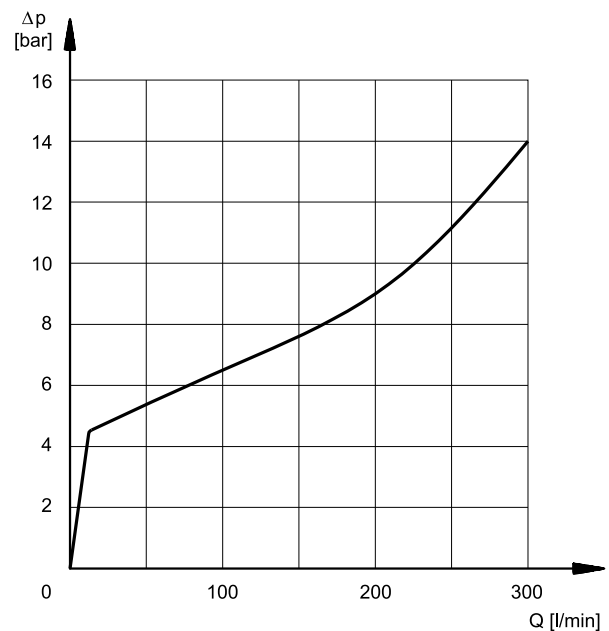
In the C version the piloting is always internal.

The backpressure valve can be also delivered separately and it can be easily mounted on line P of the main control valve. Specify the code **0266577** to order the backpressure valve separately.



pilot always internal
Y: plug M6x8 for external drain

NOTE: the backpressure valve can't be used as check valve because it doesn't assure the seal.



The curve refers to the pressure drop (body part only) with backpressure valve energized to which the pressure drop of the reference spool must be added. (see paragraph 5)

10 - ELECTRICAL FEATURES

10.1 Solenoids

These are essentially made up of two parts: tube and coil. The tube is threaded into the valve body and includes the armature that moves immersed in oil, without wear. The inner part, in contact with the oil in the return line, ensures heat dissipation.

The coil is fastened to the tube by a threaded ring, and can be rotated 360°, to suit the available space.

NOTE: In order to further reduce the emissions, use of type H connectors is recommended. These prevent voltage peaks on opening of the coil supply electrical circuit (see data sheet 49 000).

Protection from atmospheric agents IEC EN 60529

| Connection | IP 65 | IP 67 | IP 69 K |
|----------------------|-------|-------|---------|
| K1 EN 175301-803 | x (*) | | |
| K7 DEUTSCH DT04 male | x | x | x (*) |

(*) The protection degree is guaranteed only with the connector correctly connected and installed

| | |
|--|-------------------------------|
| SUPPLY VOLTAGE FLUCTUATION | ± 10% Vnom |
| MAX SWITCH ON FREQUENCY | 10.000 ins/hour |
| DUTY CYCLE | 100% |
| ELECTROMAGNETIC COMPATIBILITY (EMC) (NOTE) | In compliance with 2014/30/EU |
| LOW VOLTAGE | In compliance with 2014/35/EU |
| CLASS OF PROTECTION Coil insulation (VDE 0580) Impregnation: (DC valve) (AC valve) | class H class F class H |

10.2 - DC coils

In direct current energizing, current consumption stays at fairly constant values, essentially determined by Ohm's law: $V = R \times I$.

The WK1 and WK7D are coils specific for the high corrosion resistance version of the valve.

The WK7D coil includes a suppressor diode of pulses for protection from voltage peaks during switching. During the switching the diode significantly reduces the energy released by the winding, by limiting the voltage to 31.4V in the D12 coil and to 58.9 V in the D24 coil.

Using connectors type "D" (see cat. 49 000) with embedded bridge rectifier it is possible to feed DC coils (starting from 48V voltage) with alternating current (50 or 60 Hz), considering a reduction of the operating limits by approximately 5 ÷ 10%.

The table shows current and power consumption values for DC coils.

(values ±10%)

| | Nominal voltage [V] | Resistance at 20°C [Ω] | Current consumption [A] | Power consumption [W] | Coil code | | | |
|-------------|---------------------|------------------------|-------------------------|-----------------------|-----------|---------|---------|---------|
| | | | | | K1 | WK1 | K7 | WK7D |
| D12 | 12 | 4,4 | 2,72 | 32,7 | 1903080 | 1903050 | 1902940 | 1903400 |
| D24 | 24 | 18,6 | 1,29 | 31 | 1903081 | 1903051 | 1902941 | 1903401 |
| D48 | 48 | 78,6 | 0,61 | 29,5 | 1903083 | | | |
| D110 | 110 | 436 | 0,26 | 28,2 | 1903464 | | | |
| D220 | 220 | 1758 | 0,13 | 28,2 | 1903465 | | | |

10.3 - AC coils

The table shows current and power consumption values at inrush and at holding, relevant to the different coil types for AC current.

Coils for alternating current (values ± 5%)

| Suffix | Nominal Voltage [V] | Freq. [Hz] | Resistance at 20°C [Ohm] (±1%) | Current consumption at inrush [A] (±5%) | Current consumption at holding [A] (±5%) | Power consumption at inrush (±5%) [VA] | Power consumption at holding (±5%) [VA] | Coil Code |
|-------------|------------------------|------------|--------------------------------|---|--|--|---|-----------|
| A24 | 24 | 50 | 1,46 | 8 | 2 | 192 | 48 | 1902830 |
| A48 | 48 | | 5,84 | 4,4 | 1,1 | 204 | 51 | 1902831 |
| A110 | 110V-50Hz 120V-60Hz | 50/60 | 32 | 1,84 | 0,46 | 192 | 48 | 1902832 |
| | | | | 1,56 | 0,39 | 188 | 47 | |
| A230 | 230V-50Hz 240V-60Hz | | 140 | 0,76 | 0,19 | 176 | 44 | 1902833 |
| | | | | 0,6 | 0,15 | 144 | 36 | |
| F110 | 110 | 60 | 26 | 1,6 | 0,4 | 176 | 44 | 1902834 |
| F220 | 220 | | 106 | 0,8 | 0,2 | 180 | 45 | 1902835 |

11 - OPTIONS

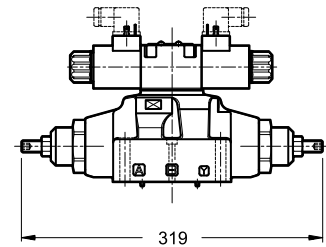
11.1 - Control of the main spool stroke: C

With the help of special side plugs, it is possible to introduce stroke controls in the heads of the piloted valve so as to vary the maximum spool clearance opening.

This solution allows control of the flow rate from the pump to the actuator and from the actuator to the outlet, obtaining a double adjustable control on the actuator.

Add the letter **C** to the identification code to request this device (see paragraph 1).

DSP7-S*/C

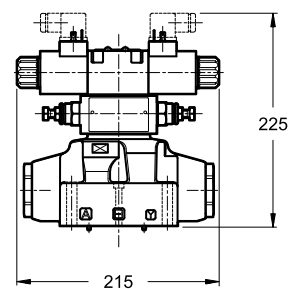


11.2 - Control of the main spool shifting speed: D

By placing a MERS type double flow control valve between the pilot solenoid valve and the main distributor, the piloted flow rate can be controlled and therefore the changeover smoothness can be varied.

Add the letter **D** to the identification code to request this device (see paragraph 1).

DSP7-S*/D

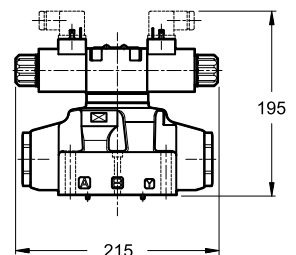


11.3 - Subplate with throttle on line P

It is possible to introduce a subplate with a restrictor of $\varnothing 0,8$ on line P between the pilot solenoid valve and the main distributor.

Add **P08** to the identification code to request this option (see paragraph 1).

DSP7-S*/P08



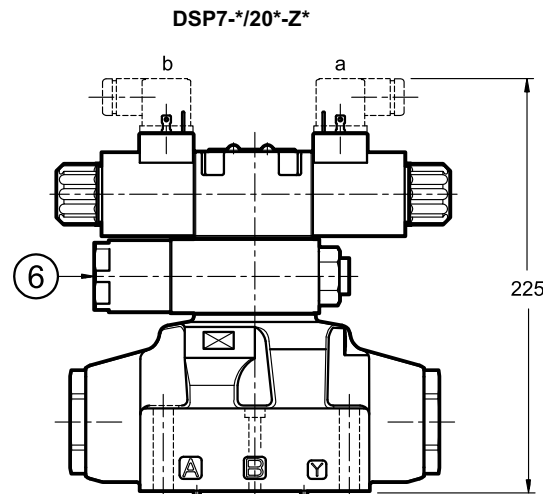
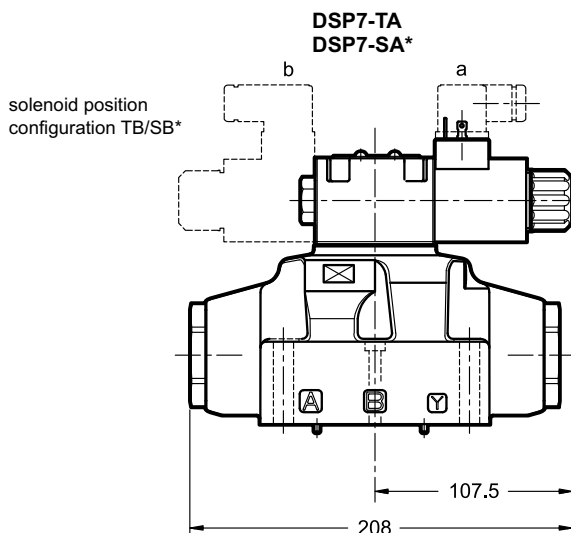
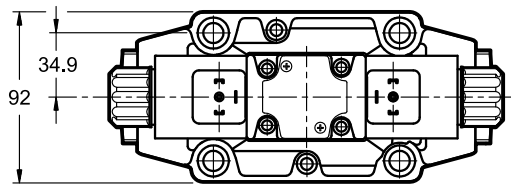
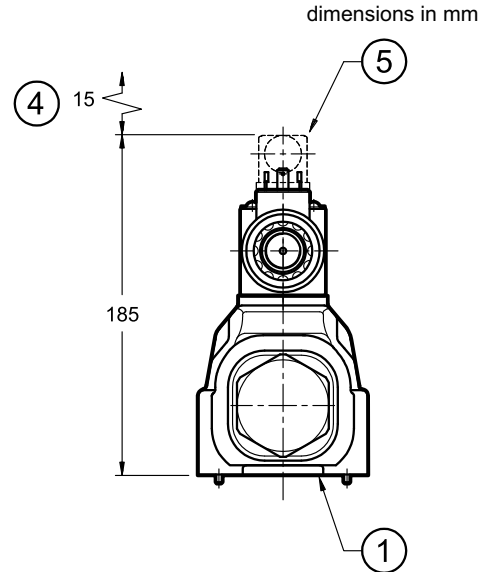
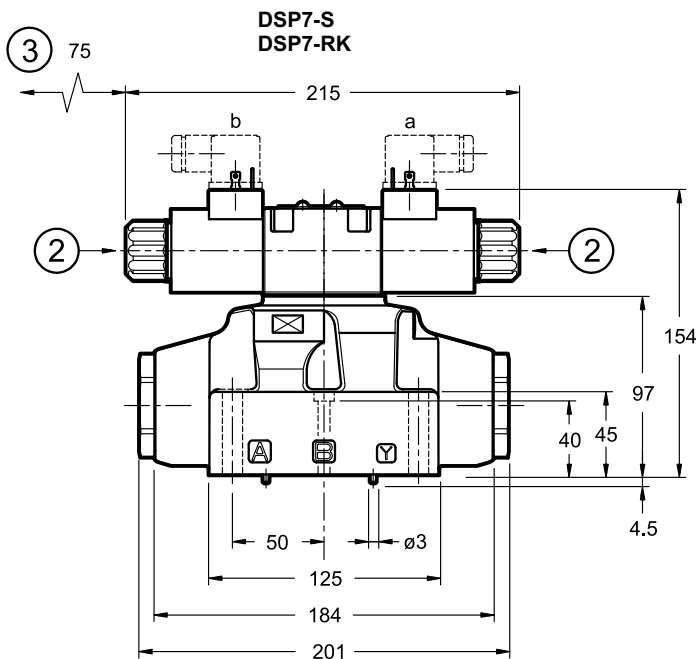
11.4 - Solenoid operated distributor with pilot valve in configuration S2

It is possible to deliver the solenoid operated distributor with pilot valve in configuration S2 (all the ports at outlet). With this option the piloting is necessarily external.

Add **S2** to the identification code to request this option (see paragraph 1).

This configuration is used with external piloting in order to allow the unloading of the piloting line when the solenoid operated valve is in rest position.

12 - DSP7 OVERALL AND MOUNTING DIMENSIONS FOR SOLENOID DISTRIBUTOR



NOTE: Use of fastening screws class A10.9 is recommended for valves in version **H** (high pressure)

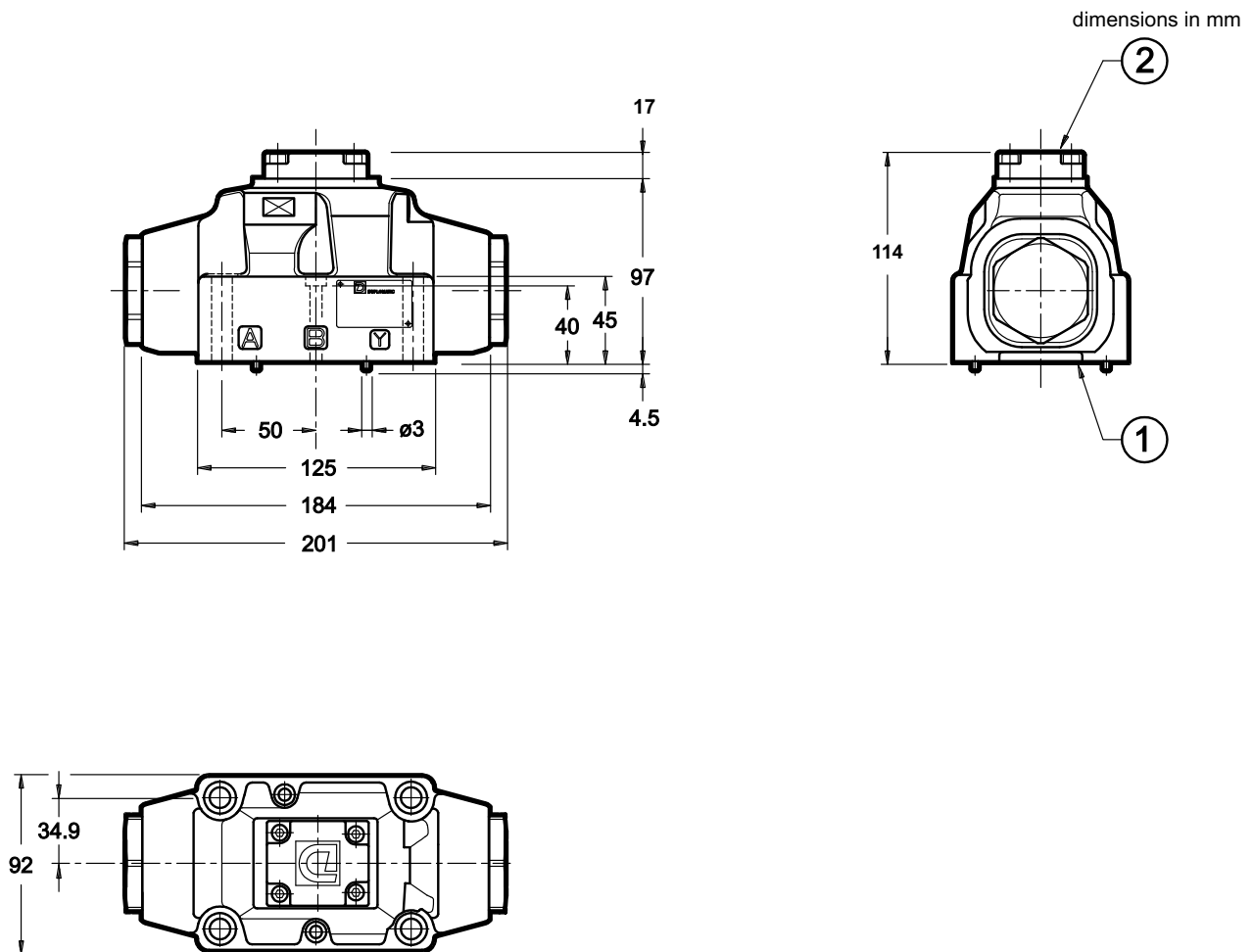
Fastening of single valve: 4 SHC screws ISO 4762 M10x60
2 SHC screws ISO 4762 M6x50

Tightening torque: M10x60: 40 Nm (A8.8) - 57 Nm (A10.9)
M6x50: 8 Nm (A8.8) - 12 Nm (A10.9)

Threads of mounting holes: M6x12; M10x18

| | |
|---|--|
| 1 | Mounting surface with sealing rings 4 OR type 130 (22.22X2.62) - 90 Shore 2 OR type 2043 (10.82x1.78) - 90 Shore |
| 2 | Manual override |
| 3 | Coil removal space |
| 4 | Connector removal space |
| 5 | Electric connector to be ordered separately (see cat. 49 000) |
| 6 | Reducing valve with fixed adjustment 30 bar |

13 - DSC7 OVERALL AND MOUNTING DIMENSIONS FOR HYDRAULIC DISTRIBUTOR DSC7



NOTE: Use of fastening screws class A10.9 is recommended for valves in version **H** (high pressure)

Fastening of single valve: 4 SHC screws ISO 4762 M10x60
2 SHC screws ISO 4762 M6x50

Tightening torque: M10x60: 40 Nm (A8.8) - 57 Nm (A10.9)
M6x50: 8 Nm (A8.8) - 12 Nm (A10.9)

Threads of mounting holes: M6x12; M10x18

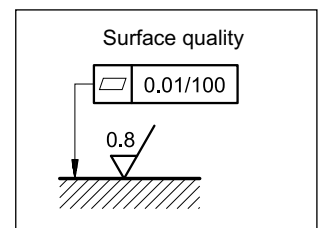
- | | |
|---|---|
| 1 | Mounting surface with sealing rings: 4 OR type 130 (22.22X2.62) - 90 Shore 2 OR type 2043 (10.82x1.78) - 90 Shore |
| 2 | Short-circuit subplate |

14 - INSTALLATION

Configurations with centring and recall springs can be mounted in any position; type RK valves - without springs and with mechanical detent - must be mounted with the longitudinal axis horizontal.

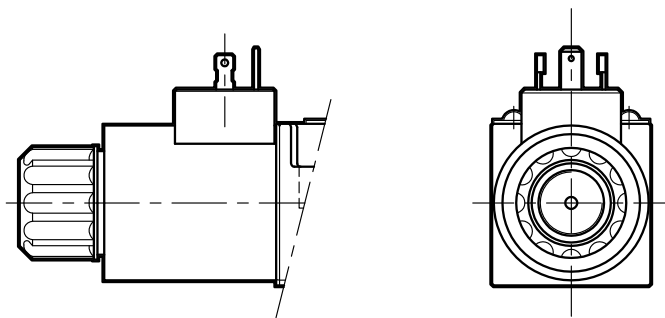
Valve fastening takes place by means of screws or tie rods, laying the valve on a lapped surface, with values of planarity and smoothness that are equal to or better than those indicated in the drawing. If the minimum values of planarity or smoothness are not met, fluid leakages between valve and mounting surface can easily occur.

NOTE: Use of fastening screws class 10.9 is recommended for valves in version **H** (high pressure).

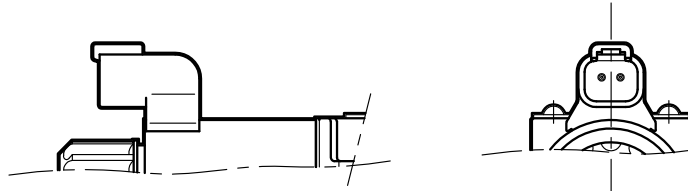


15 - ELECTRIC CONNECTIONS

connection for EN 175301-803
(ex DIN 43650) connector
code **K1** (standard)
code **WK1** (W7 version only)



connection for
DEUTSCH DT06-2S male
connector type
code **K7**



connection for
DEUTSCH DT06-2S male
connector - coil with diode
code **WK7D** (W7 version only)



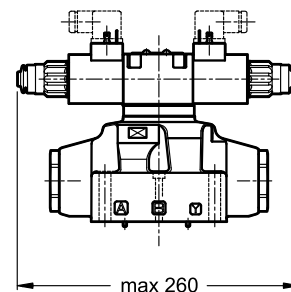
16 - ELECTRIC CONNECTORS

Solenoid valves are delivered without connectors. Connectors type EN 175301-803 (ex DIN 43650) for K1 and WK1 connections can be ordered separately. See catalogue 49 000.

17 - MANUAL OVERRIDE

Whenever the solenoid valve installation may involve exposure to atmospheric agents or use in tropical climates, the manual override, boot protection is recommended.

Add the suffix **CM** to request this device (see paragraph 1).



18 - SUBPLATES

(see catalogue 51 000)

These plates are not suitable for high pressure valves DSP7H.

| | |
|-----------------------------|------------|
| Type with rear ports | PME07-AI6G |
| Type with side ports | PME07-AL6G |
| P, T, A, B, port dimensions | 1" BSP |
| X, Y, L port dimensions | 1/4" BSP |

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

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