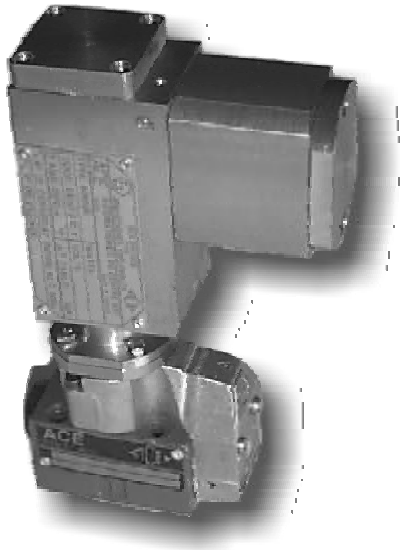
EXPLOSION PROOF CHECK VALVE TYPE SEW6 SERIE 3X ATEX DIRECTIVE & CENELEC STANDARD

NOT/E 10-610/08-03

CARACTERISTICS

***Hydraulic* :**
Cetop 3.
Maximum service pressure : 250 Bar.
Nominal flow max. : 11 l/mn.
4 hydraulic symbols : 4/2 et 3/2.
No leakage inside.
With or without pushbutton.

Electric :
Protection index : IP 66.
CENELEC Standard & ATEX Directive
Non-Mining : II 2 GD EExd or EExde, IIC.
Temperature range : T5, T4.
Mining : **EEx"d" ou EEx"de", I M2.**
Connections on terminal box or taped flange
Direct Voltage only.



M-3 SEW6 C 3X / 420 / EX800 24-DC-T5 H1d

DESCRIPTION OF FUNCTION

Operated check valve type SEW6, are solenoid operated directional ball valves. They control start stop and direction of oil flow.

The valves basically consist of the housing
one solenoid valve seat, hardened steel ball.

The filter in alimentation protect the check valve from to much clog.

The force of the solenoid acts via the lever on the check and on the control push .
The spring lock the check on the valve seat in neutral position from the solenoid in work position.
Advantage of the disposition :

VALVE 3/2:

Symbol U valve with 1 check :
- neutral position : flow from P to A, T locked without leakage.
- work position : flow from A to T, P locked without leakage.

Symbol C valve with 2 checks
- neutral position: flow from A to T, P locked without leakage
- work position: flow from P to A, T locked without leakage.

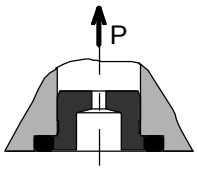
VALVE 4/2:

Symbol D : 3/2 valve symbol U with 1 check and with plus 1 plate.

Symbol Y : 3/2 valve symbol C with 2 checks and with plus 1 plate.

Throttle cartridge fited in "P "line of the hydraulic valve.

.. SEW6 ..3X ...**B0..**



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SOLENOID

GENERALITY

Direct curent solenoid (1) its mechanical impact strength is approved by the CENELEC for explosion proof equipment.

Insulation to IP 66, it can work in tropical climates.

Direct curent solenoid has the advantages of :

- slow movement of the control spool.
- energized maintenance of the control valve in intermediary position, is not detrimental to the solenoid.

The solenoid housing can be oriented in steps of 90° on hydraulic valve.

ELECTRIC CONNECTION

JUNCTION IN BOX FOR GROUP I AND IIC

The terminal box (3) can be oriented in steps of 45° on the solenoid housing (1).

The electrical connector on the outlet terminal box (6) can be arranged horizontally (on terminal box 3) or vertically (on cover 4) suitable for cable gland.

The execution H is recommended for easy access to the terminal strip.

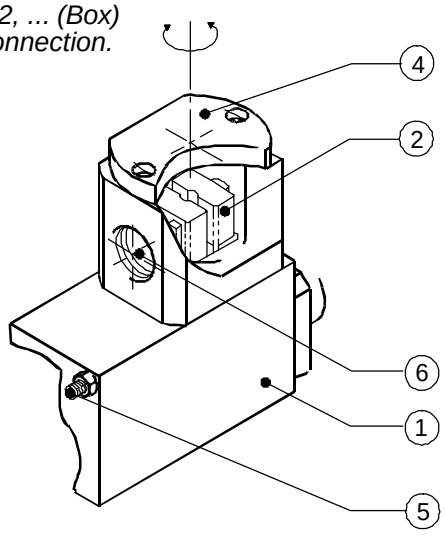
One earth connection (5) is available inside or outside the terminal box .

JUNCTION ON FEMALE TAPED FLANGE
FOR GROUP II ONLY.

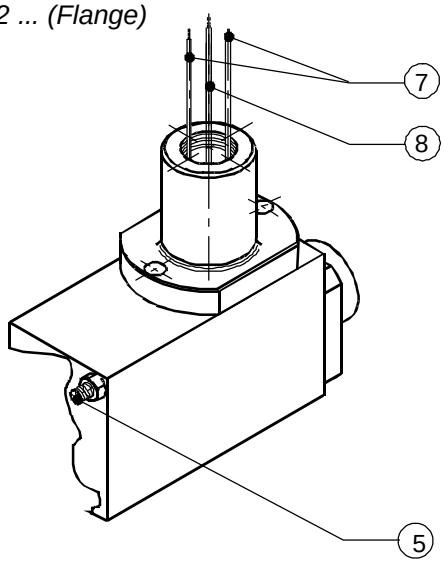
Connection with threaded rigid conduit approved in group II only.
Seal integrated in the housing.

Earth connection (5).
The lead wire length normally supplied is 1.5 meter.
Active lead wires (7).
Earth lead wire (8).

Model H1, H2, ... (Box)
Horizontal connection.



Model B1, B2 ... (Flange)



2 DIFFERENT PROTECTION MODES.

1) Protection EEx "d"
On terminal strip (2A) inside the explosion proof terminal (3A) box suitable for 0.5 to 2.5 mm² with cable gland EEx "d".

2) Protection EEx "e"
On terminal strip (2B) inside the increased safety terminal box (3B) suitable for 0.5 to 2.5 mm² with cable gland EEx "e".

CABLE GLAND RECOGNIZED

PE option (see page 5).
Cable gland for unarmored cable EEx"d" IIC recognized in 1/2" NPT

Also available in EEx"d", EEx"e" group I or group IIC for armoured, unamored or mineral cable : Consult us.

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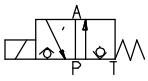
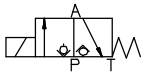
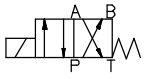
CARACTERISTICS

HYDRAULIC

Maximum operatingpressure : Ports A, B, P.	Bar	Up to ... 250
Maximum operatingpressure : PortT.	Bar	Up to ... 100
Maximum flow	L/Mn	(seeoperating curves of pressure drop page 8)
Hydraulic fluid	.	Mineral oils
Viscosityrange	mm²/s	1 380
Fluidtemperature range	(°C)	-30°.....+70
Weight : - valvewithoutplate	(Kg)	4.0
- valve withplate	(Kg)	4.4
Mounting position : - 3 Positions		Optional
- 2 Positions		Optional
Standard symbol : - 2 positions		 U  C
- 3 positions		 D  Y

ELECTRICAL

Continous voltages available.	V/DC					24						
Temperaturerange with ambiente 40°C.	T					T5						
Temperaturerange with ambiente 50°C	T					T4						
Power requirement.	VA					16.4						
Protection index.		IP66/Tropicalised										
Dutycycle.		100%										
Maximum coil temperature.	(°C).	130°C										
Outlet connection onterminal box or tapedflange		1/2"NPT, PG11, PG13.5, PG16, M16x1.5,M20x1.5,M22x1.5.										

CERTIFICATE OF CONFORMITY

European classification code	Group IIC	Group I
Explosion proof	EEx"d" IIC	EEx"d" I.
Increased safety	EEx"de" IIC	EEx"de" I.
Approval number INERIS	03ATEX0044 X	03ATEX0044 X

STANDARD

Conformity to European Standards from 94/9/CE.	Europe		
	EN 50 014	-JUNE	1997 + AMENDMENT 1 ET 2
	EN 50 018	-NOVEMBER	2000
	EN 50 019	-JULY	2000
	EN 50 50281-1-1	-SEPTEMBER	1998

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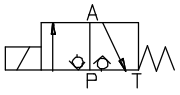
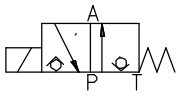
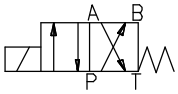
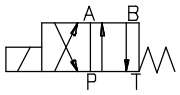
HYDRAULIC

REFERENCES

- SEW6 3X / 420

Mineral Oil	**M**
3/2 switching position symbol C & U 4/2 switching position symbol D & Y	**3** **4**
 	**C** **U**
 	**Y** **D**
Serie number 30 to 39	**3X**
Hydraulic Housing serie	**420**

For use when the flow is greater than the valve capacity,fittedinPline.

Throttle Ø 1.2 MM :	**B12**
Throttle Ø 1.5 MM :	**B15**
Throttle Ø 1.8 MM :	**B18**
Throttle Ø 2.0 MM :	**B20**
Throttle Ø 2.2 MM :	**B22**

Without check valve	**P**
With check valve	

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REFERENCES

/ EX - -

PE	Other cable gland, consult us. With standard cable gland. No code : Without cable gland.
d **e**	With EEx"d" box . With EEx"e" box. No code. : For EEx"d" taped flange
1 . . . 7	**1** : 1/2" NPT **2** : PG 11 **3** : PG 13.5 **4** : PG 16 **5** : M 16 x 1.50 **6** : M 20 x 1.50 **7** : M 22 x 1.50
H **V** **B**	Horizontal connection on the box. Vertical connection. On cover of the box. For taped flange, Group II only.
P	Control pushbutton . . No code : Whithout control pushbutton.
T5	Temperature range (For group II only).
DC	Solenoid energized in continous current.
24	Solenoid power supply in Volt. 24 ...
EX	Explosion proof European standards (CENELEC).
M	Solenoid for use in mining (Group I). No code : Solenoid for use in explosive atmosphere (Group II).

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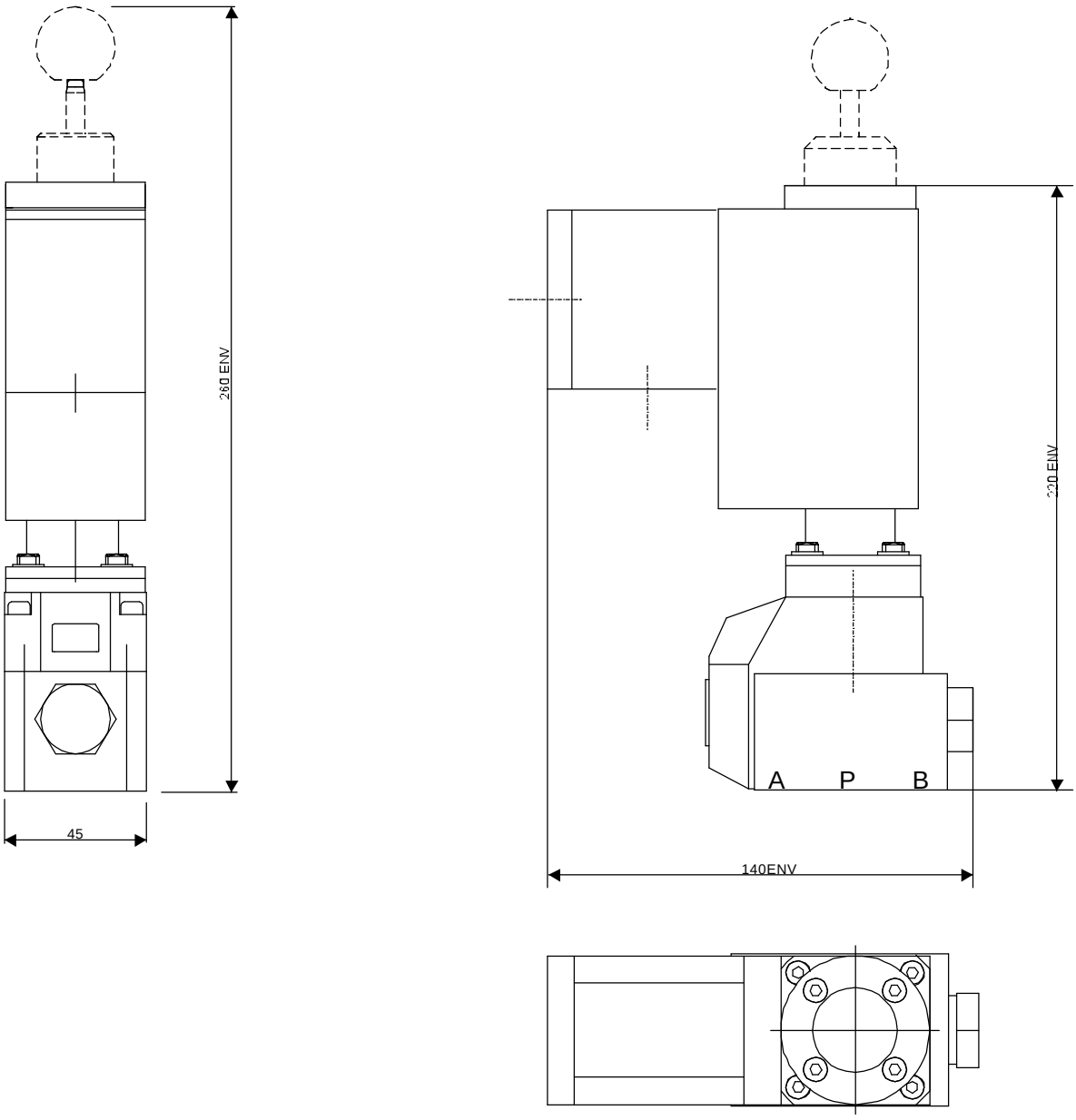
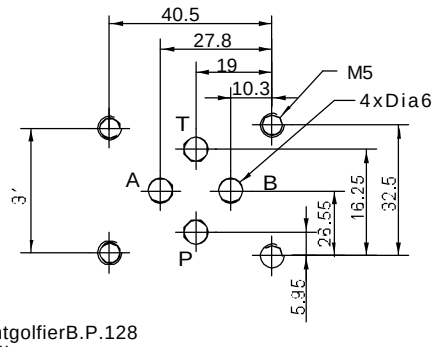
DIMENSIONS



HYDRAULIC VALVE CONNECTION

HYDRAULIC VALVE CONNECTION SIZE6TYPECETOP3



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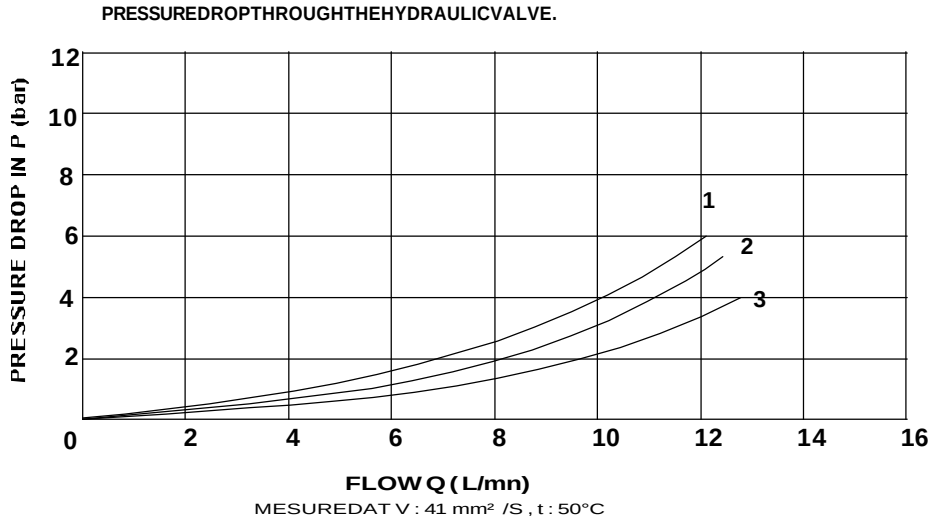
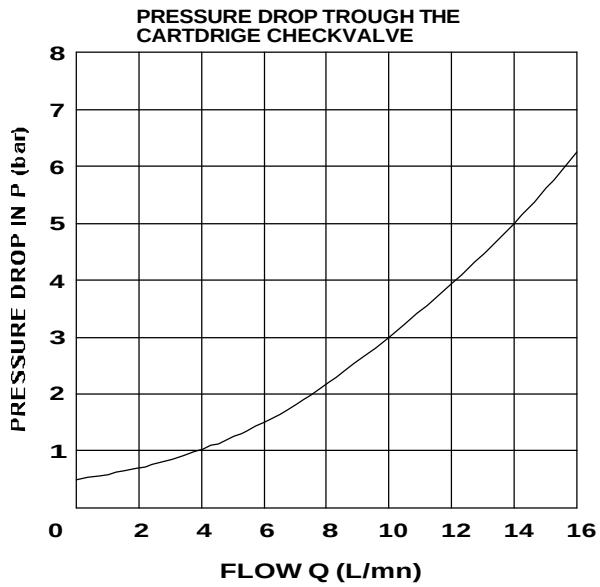
CURVES OF PRESSURE DROP

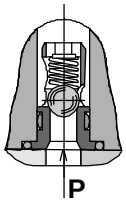
VALVES 3 And 4 PORTS - 2 POSITIONS

1 : M-3SEW6 U or C , A to T
2 : M-3SEW6 U , P to A
3 : M-3SEW6 C , P to A



MESUREDAT V : 41 mm² /S , t : 50°C



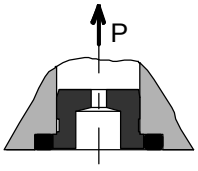


CARTDRIGECHECKVALVE

For thevalves3/2thecartridgeisinsertedinportPofthecheck valve.

For thevalves4/2thecartridgeisinsertedinportPoftheplate N+1.

CARTRIDGETHROTTLE :
For use when theflow isgreaterthanthevalvecapacity,fittedinP line.
For thevalves3/2thecartridgeisinsertedinportPofthecheck valve.
For thevalves4/2thecartridgeisinsertedinportPoftheplate N+1.



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