5000-******
DS3-*******

DS3
SOLENOID WITH HAND CONTROL
DIRECTIONAL VALVE
WET ARMATURE

CETOP 03 (NG06)

P max.: 250 bar

Q max.: 60l/min

Q rated: 20 l/min @ Δp 2 bar

GENERAL SPECIFICATION:
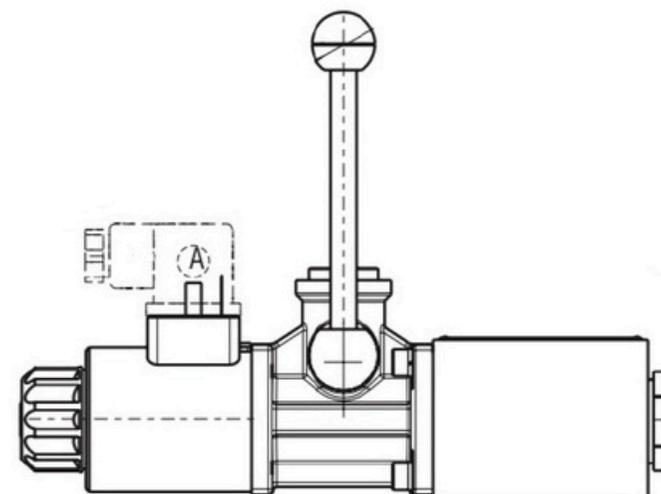
Mounting according to CETOP, NFPA standard.

Cast-iron body with passage interchangeable for various centre spools. Wet armature solenoid, movable parts immersed in oil for self-lubrication and cooling circulation. Solenoid coil of different voltage is interchangeable within the same type of supply current, i.e. alternating (A.C) or direct (D.C).

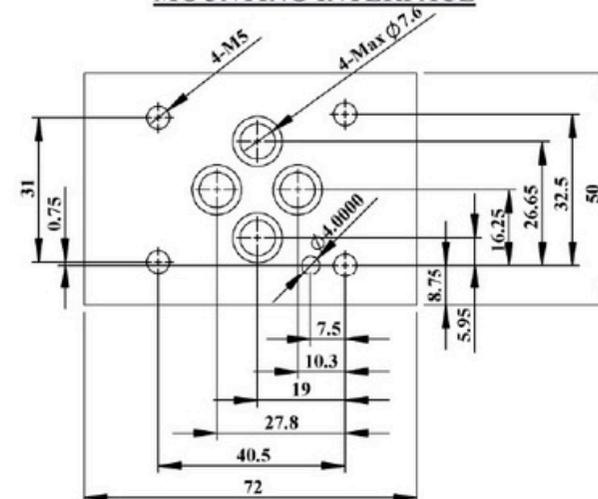Spool movement can also be controlled with hand lever on power-off conditions.

Available in 4-ways 3-positions double solenoid spring centering, 4-ways 2-positions single solenoid spring centering or 4 ways 2 positions double solenoid with mechanical detent.

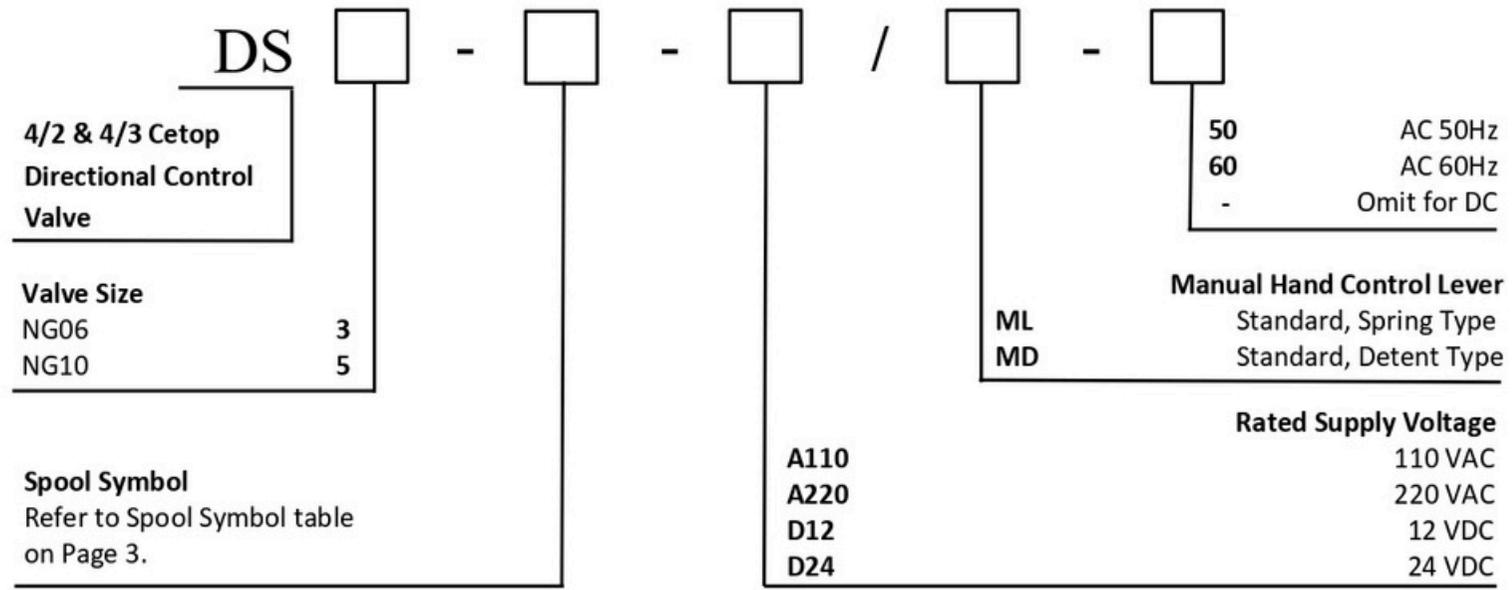Special spools are available for wide range of application on request.

Maximum pressure P,A,B	bar	315
Maximum pressure P,A,B(3C6)	bar	250
Maximum back pressure on T	bar	100
Working temperature range	^{0}C	5~80
Fluid viscosity range	cSt	20~300
Recommended fluid viscosity	cSt	32~46
Recommended filtration	μm	25
Mass: Single Coil	Kg	2.20
Double coil		2.86

MOUNTING INTERFACE

ORDERING CODE

DS ☐ - ☐ - ☐ / ☐ - ☐

4/2 & 4/3 Cetop Directional Control Valve

50	AC 50Hz
60	AC 60Hz
-	Omit for DC

Valve Size

NG06	3
NG10	5

Manual Hand Control Lever

ML	Standard, Spring Type
MD	Standard, Detent Type

Spool Symbol

Refer to Spool Symbol table on Page 3.

Rated Supply Voltage

A110	110 VAC
A220	220 VAC
D12	12 VDC
D24	24 VDC

3C2/01		2B3/06	
3C3/02		2B3/06L	
3C4/03		2B3B/07	
3C6/04			

AIVIO

Performance curve
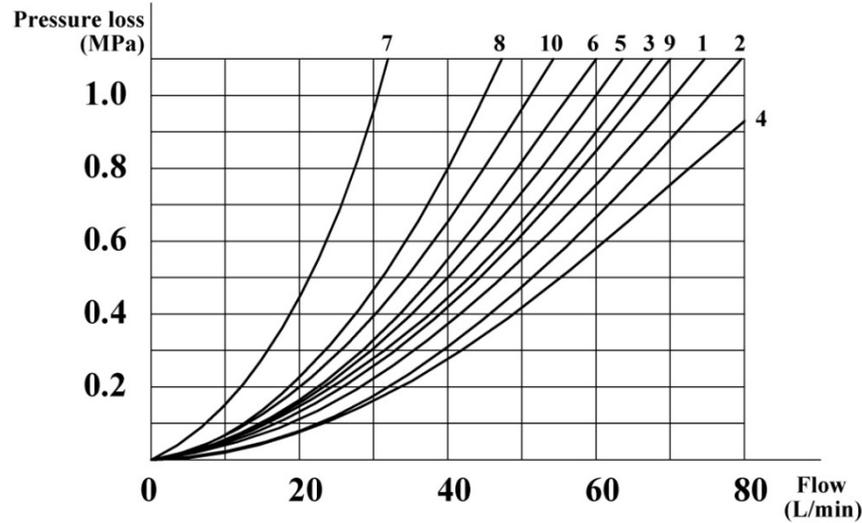
Function code	Direction			
	P→A	P→B	A→T	B→T
2B8,2B8L	3	3	-	-
2B3	1	1	3	1
2B2,2B2L	5	5	3	3
3C2	3	3	1	1
3C5	1	3	1	1
3C6	10	10	9	9
3C3	2	4	2	2
3C4	1	1	2	1
3C10,3C12	3	3	4	9
3C9	2	3	3	3
3C25	3	1	1	1
3C29	5	5	4	-
3C7	1	2	1	1

AC Solenoid operation

Curve	Symbol
11	2B8,2B8L1
12	3C7
13	2B8,2B8L
14	3C5,3C25
15	3C6
16	3C3
17	2N8,2D8,2N3,2D3 2N2,2D2,3C2,3C4,3C10 3C9,3C29,3C12
18	2B3,2B2,2B2L
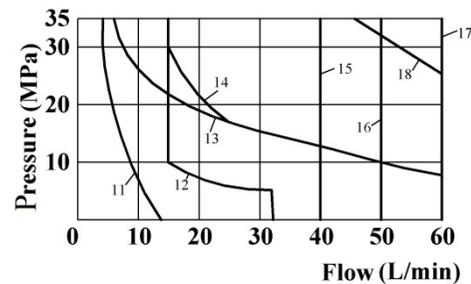
DC Solenoid operation

Curve	Symbol
1	2B8,2B8L1
2	3C7
3	2B8,2B8L
4	3C5,3C25
5	3C4
6	3C6,3C3
7	2N8,2D8,3C10,3C12
8	2B3,2B2,2B2L
9	3C9
10	3C2,3C29,2N3,2D3, 2N2,2D2

19 (0.75)

44 (1.73)

44 (1.73)

20° 20°

158 (5.94)

44 (1.73)

(271(10.66))
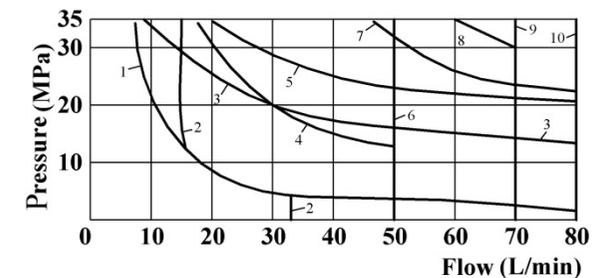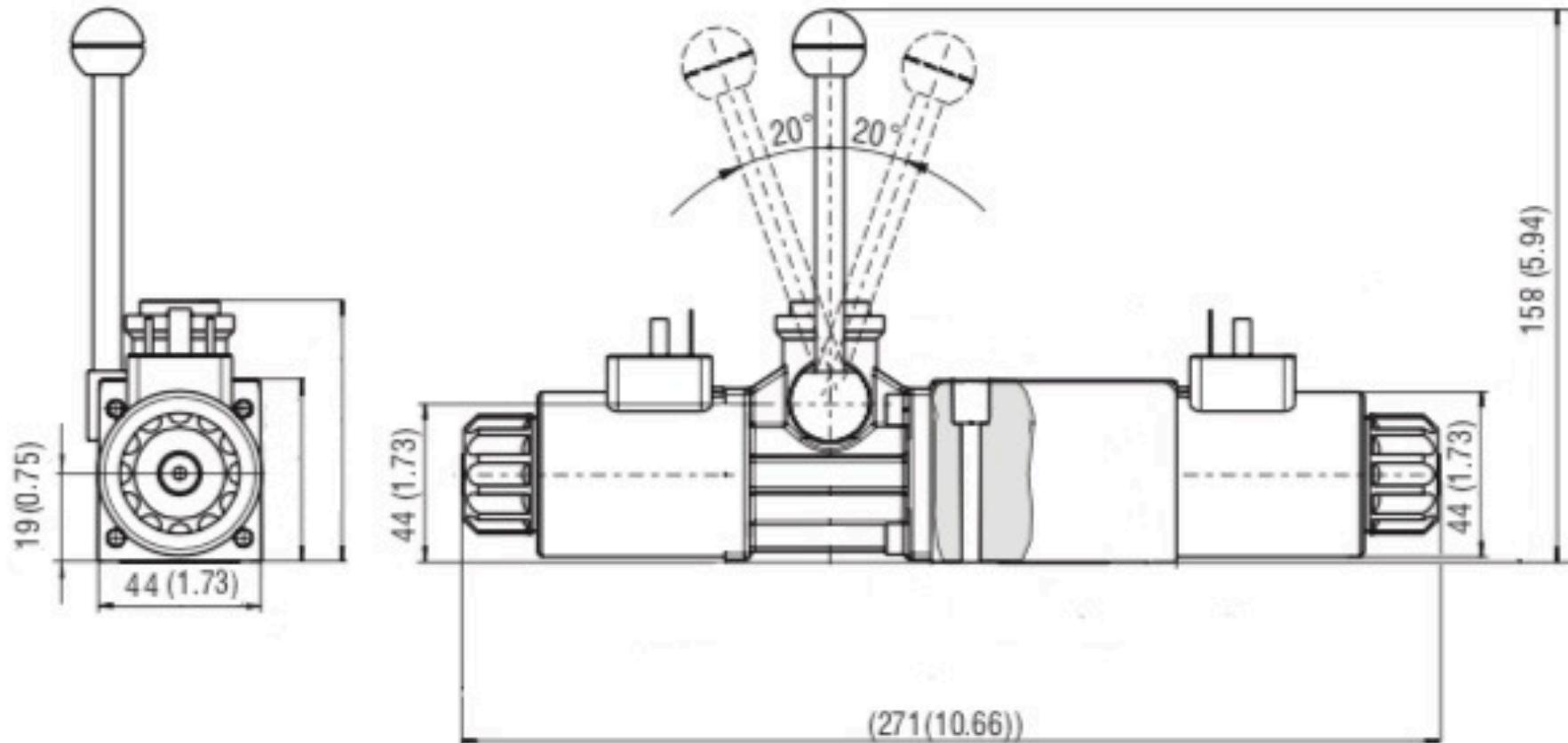
The lever operator should never be used when any solenoid is energized.