Severe & Hazardous Area Experts

Specifically designed for Offshore Severe Environments

• **Certified Zone 1 Class 1 Hazardous Areas**

• **ATEX 94/9/EC**

• **M.T.B.F., Lambda and SIL Data (Available upon request)**

• **Easy Installation, Repair and Replacement**

• **Ambient Temperature Range -50ºC to 60ºC**

• **Low Power Consumption (3.5 & 8 Watts)**

• **316 Stainless Steel Construction**

• **400 bar Max Pressure**

• **200 litres/min**

• **Leak tight**

DN35 Series

125.0

8.25   108.5

Ø10.5 THRO'
MTG' HOLE
4 PLACES

8.25

X   A

R   P

108.5

Y

N INMETRO **ATEX** CSA

UL Ex PCT (GOST R)
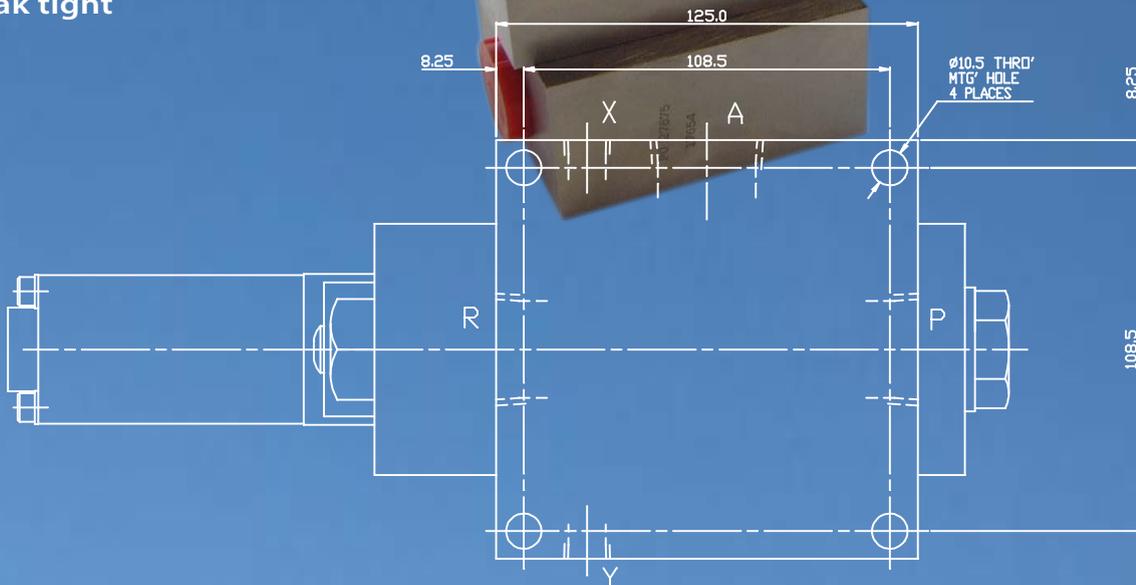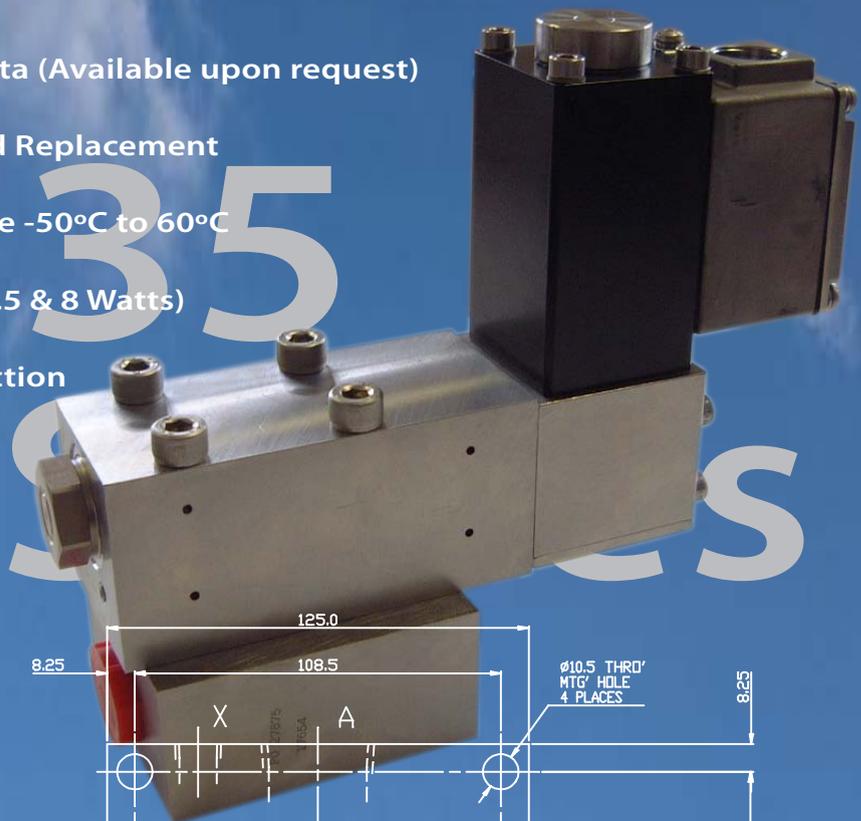
Metal to Metal Seated

Hydraulic Solenoid Valve

DN25 Series

General Description

The DN25 is a metal to metal seated hydraulic control valve. The stainless steel seat design ensures a leak tight shut off. The valve design incorporates a balanced internal piloting system to enable the low powered solenoid coil to switch the valve at high pressures.

The DN25 Mainstage uses cartridge insert technology which simplifies replacement and considerably reduces "downtime" costs. Features of the DN25 are an 'O' Ring interface that enables it to be fitted with a subplate, or manifold mounted for use in local control panels for actuator control applications.

By removing just 4 bolts the valve can be dismounted without disturbing pipework and possibly contaminating the hydraulic system. Blanking or flushing plates can also be supplied.
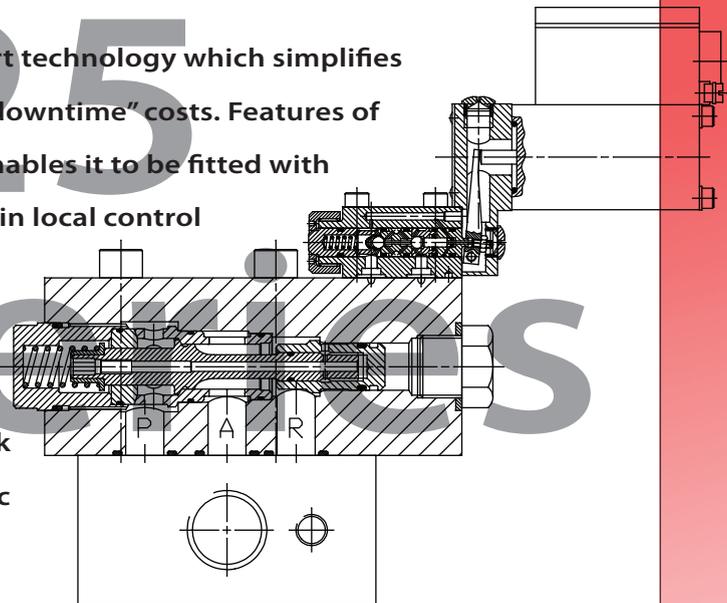
Materials of construction

• Valve bodies and subplates 316L Stainless Steel
• Wetted parts, various grades of stainless steel/ ceramic/aluminium bronze
• Metal to Metal Seated Design

Filtration

• Recommended 10 micron absolute

Ingress protection

• IP66/NEMA 4X

Ambient temperature range

• Standard: -20°C to +60°C
• Low Temp: -50°C to +60°C

Operating pressure range

• 0 to 400 bar depending on operator type

Fluid Media

• Suitable for use with Mineral Oil, Synthetic and Water Glycol-type Fluids

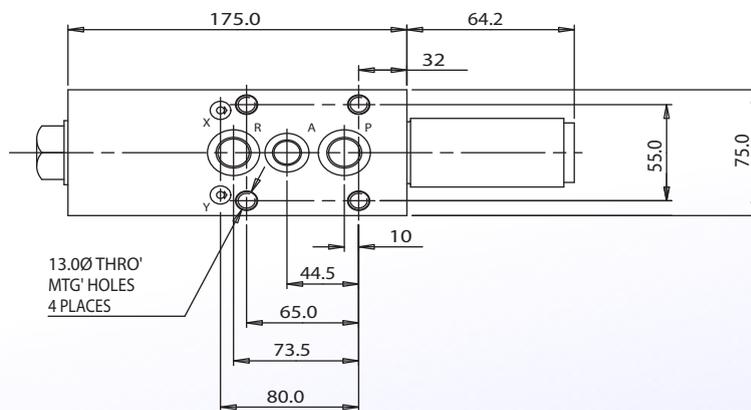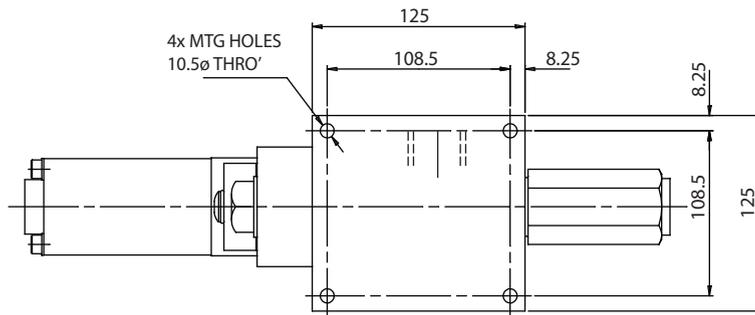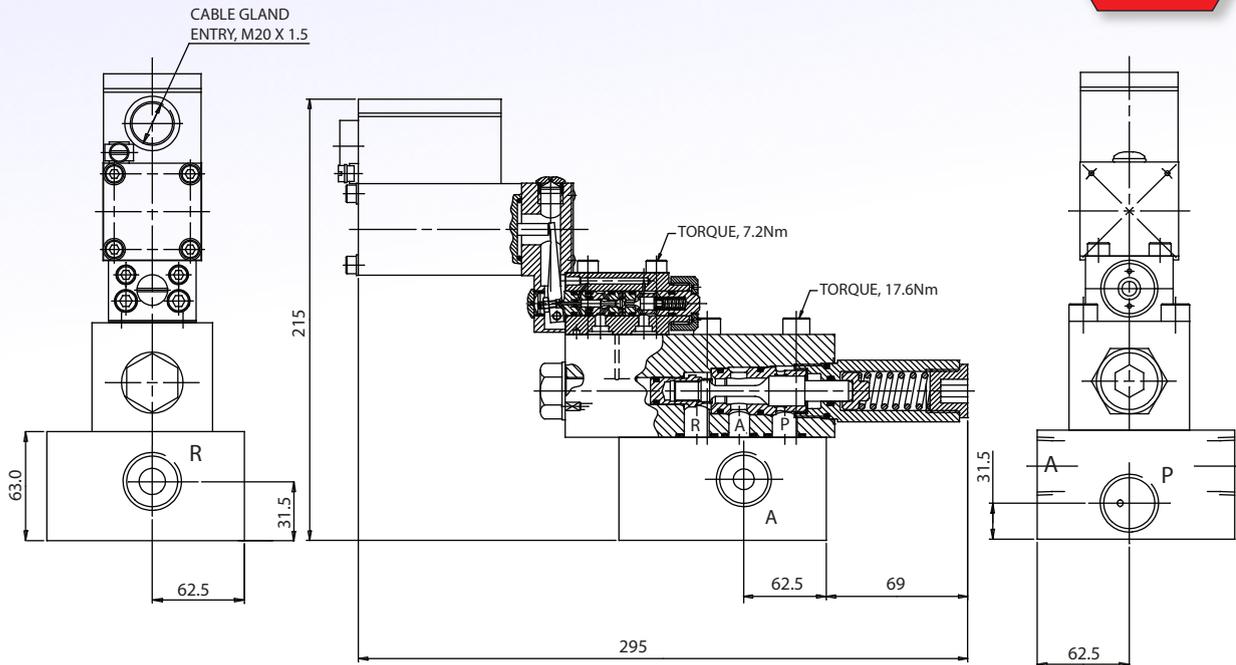UL Ex PCT (GOST R) N INMETRO ATEX CSA

Metal to Metal Seated

Hydraulic Solenoid Valve

Severe & Hazardous Area Experts

CABLE GLAND ENTRY, M20 X 1.5

TORQUE, 7.2Nm

TORQUE, 17.6Nm

215

63.0

31.5

R

62.5

31.5

R A P

62.5 69

295

A

A P

31.5

62.5

125

108.5

8.25

4x MTG HOLES
10.5ø THRO'

8.25

108.5

125

175.0

64.2

32

X

R A P

Y

55.0

75.0

10

13.0Ø THRO'
MTG' HOLES
4 PLACES

44.5

65.0

73.5

80.0

Approximate Weight

With Subplate 11 kgs

Without Subplate 8 kgs

RED

BLACK

EXT.
EARTH

+ –

ELECTRICAL DIAGRAM

A

P R

HYDRAULIC SYMBOL
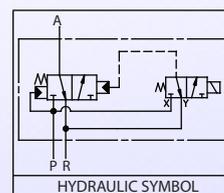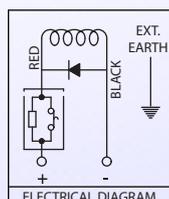
Midland- ACS Valve Coding System 2007

Valve Orifice Size & Nominal Flowrates (Water Glycol @ 10 Bar AP)
DN25 - 200l/min

Max Operating Pressure (Bar)
2 = 210
4 = 400

No. of Ports
2   3   4

No. of Positions
2   3

Function
1 - N/C
2 - N/O
4 - 4/2
5 - 4/3 open centre

Block Before Bleed
A = non block before bleed   B = block before bleed

Operating Medium
2 = Oil   4 = Oil & Water Glycol

Seals
1 = Nitrile   3 = Flurosilicone (Low Temp)

Operator
A = No Operator (Valve Only)
B = Industrial Solenoid (DC & AC voltage)
D = EExme II T6 3.5 watt solenoid
E = EExme II T4 8 watt solenoid
J = EExia IIc T6 , <1 watt Atex
K1 = EExd IIb T4 33 watt solenoid ATEX II 2G
K2 = EExd IIC T6 3.5 watt solenoid ATEX II 2G
K3 = EExd IIC T4 8.0 watt solenoid ATEX II 2G
L = EExde IIb T4/T6 13 watt Non Atex
N = Low pressure operator (gases)
P = Medium pressure operator (hydraulic)
R = High pressure operator (hydraulic)
T = Manual palm push button
V = Roller
W = Cam
X = Plunger
Y = Fusible Bulb
Z = Special Operator

Voltage
B = 24Vdc
C = 48V dc
D = 110V dc
E = 220V dc
F = 110V 50 Hz
G = 110V 60 Hz
H = 120V 60Hz
J = 125V 50Hz
K = 240V 50Hz
0 = No Voltage

Additional Features
O = Manual Over-Ride (Spring Return)
M = Manual Reset
D = Manual Detent
A = Autoreset (Spring Return)
B = Bi-stable Hydraulic Latch
H = Hydraulic Over-Ride

Interface
0 = Valve only (w/out subplate)   1 = Subplate Mounted   2 = Body Ported

Port Size
0 = valve only
5 = 1"

Thread
0 = Valve Only
1 = NPT
2 = BSPP
3 = BSPT
4 = MP 20,000 psi
5 = Special

Special Features
0 = No Extras
1 = 1/2" NPT cable entry
2 = position indicator proximity sensor
3 = external pilot supply
4 = external pilot drain
5 = hydraulic override

Example
DN25 - 4   3   2   1   A   2   1   E   B   A   1   5   1   0