Severe & Hazardous Area Experts

- Specifically designed for Severe Offshore Environments
- Certified for Zone 1, Division 1 Hazardous Areas
- ATEX 94/9/EC
- M.T.B.F., Lambda and SIL Data (Available upon request)

STH.

INMETRO

- Easy Installation, Repair and Replacement
- Ambient Temperature Range -50°C to +60°C
- Low Power Consumption (3.5 & 8 Watts)
- 316 Stainless Steel Construction
- Wide range of operators available
- 1140 bar Max Operating Pressure

Ρ

5.0

32.5

65.0

- Leak tight
- 5 litres/min

Ball Seated Design Hydraulic Control Valves

Issued: 04/2007

CABLE GLAND ENTRY, M20 x 1.5

25.0

(GOST R)

39.3

Severe & Hazardous Area Experts

General Description

The DN3 is a ball seated hydraulic control valve. The stainless steel seat and ceramic ball design ensures a leak tight shut off . The DN3 valve design incorporates a balanced internal piloting system and a lever mechanism to enable low powered operators to switch the valve at high pressures.

The DN3 valve features an 'O' Ring interface that enables it to be fitted with a 1/4" NPT ported subplate as standard, or manifold mounted to reduce pipework, fittings, weight and space. This interface also allows Ρ direct mounting of the DN3 valve to larger pilot-operated DN5, whereby increasing the flow capacity up to 200L/min. (Please consult factory for further information).

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 Standard: -20°C to +60°C
- Wetted parts, various grades of stainless steel/ ceramic/aluminium bronze
- Fasteners, A4, grade 80 stainless steel
- Springs, stainless steel

Filtration

Recommended 10 micron absolute

Ingress protection

• IP66/NEMA 4X

Ambient temperature range

- Low Temp: -50°C to +60°C

Operating pressure range

• 0 to 1,140 bar depending on operator type

Fluid Media

- Suitable for use with Mineral Oils, Water Glycols, Methanol, Fresh Water, Air, Natural Gas, and Nitrogen
- N ATEX (GOST R)

Seated Design

Ball

DN3 Series

Hydraulic Control Valves



Coding Syster	n 2007	DN03 - 5l/min	Valve Orifice Size & Nominal Flowrates (Water Glycol @ 10 Bar AP)
		2 = 210 3 = 345 4 = 400 5 = 690 6 = 1140 2 3 4	Max Operating Pressure (Bar) No. of Ports
	1- 2- 3- 4- 5- 7-	2 3 4 2 3 N/C N/O Divertor 4/2 4/3 open centre Universal	No. of Positions
	A = non block befo	ore bleed	Block Before Bleed
	1 = Gases 2 = Oil 3 = Water 4 =	Oil & Water Glycol	Operating Medium
	I = Nithle Z = Vitoli S = Pubbsilicolie (LOW Temp) A = No Operator (Valve O B = Industrial Solenoid (D D = EExme II T6 3.5 watt si E = EExme II T4 8.0 watt si K1= EExd IIb T4 33 watt so K2 = EExd IIC T6 3.5 watt so K3 = EExd IIC T4 8.0 watt so L = EExde IIb T4/T6 13 wa N = Low pressure operato P = Medium pressure operato R = High pressure operato T = Manual palm push bu X = Plunger Y = Fusible Bulb Z = Special Operator	4 = Derrin (gases) nly) C & AC voltage) blenoid ATEX II 2G blenoid ATEX II 2G blenoid ATEX II 2G blenoid ATEX II 2G blenoid ATEX II 2G tt Non Atex r (gases) rrator (hydraulic) br (hydraulic) ttton	Operator
	A = Auto reset (Spr D = Manual Detent	B = 24Vdc $C = 48V dc$ $D = 110V dc$ $E = 220V dc$ $F = 110V 50 Hz$ $G = 110V 60 Hz$ $H = 120V 60Hz$ $J = 125V 50Hz$ $K = 240V 50Hz$ $0 = No Voltage$ ing Return)	Voltage
	M = Aydrauic Over M = Manual Reset O = Manual Over-R	ide (Spring Return)	Additional Features
	0 = Valve only (without subplate) 1 = Subplate Mounted		Interface
		0 = valve only 1 = 1/4"	Port Size
		0 = Valve Only 1 = NPT 2 = BSPP	Thread
	0 = No Extras 1 = 1/2" NPT cable (2 = position indicat	entry or proximity sensor	Special Features
DN03 - 2 3 2)3 - 2 3 2 1 A 2 1 D B O 1 1 1 2		Example