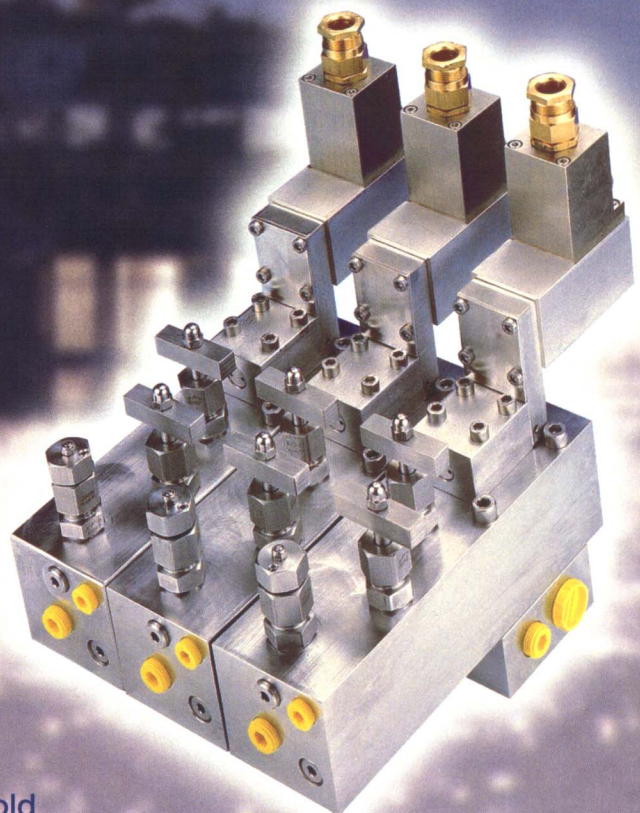


Dr. BREIT

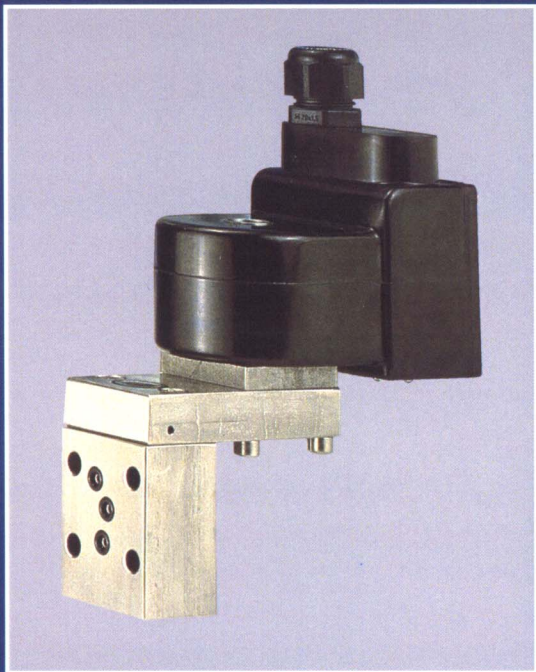
Dr. Breit GmbH
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Hydraulik
Pneumatik
Elektronik

Valves and Control Units for Offshore and Onshore Oil & Gas Industry



Fail Safe Leakage Free Wellhead Control Manifold
for downhole valve, master valve and wing valve



2/2 and 3/2 pilot valve DN 2

direct operated leakage free block type
normally closed (nc) or normally open (no)

working pressure: up to 700 bar (10.000 psi)
flow rate: up to 2,5 l/min
ambient temperature: -25°C to +60°C

EEx ia II C T5/T6

5 V to 24 V DC

1,3 W to 2 W (0,7 W to 1 W)*

EEx d II C T6

5 V to 250 V DC

3,3 W

EEx me II T6

8 V to 250 V AC/DC

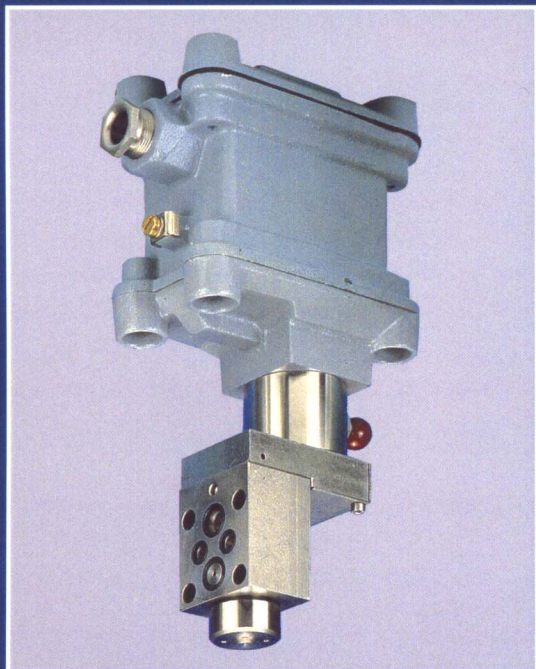
10 W (4 W)*

materials:

options:

Titanium, AISI 316, hard-coated Aluminium,
Brass or Customer Specified
pneumatic or hydraulic operated (5 to 700 bar)
manual override and/or manual reset
ambient temperature -60°C

* power reduction



2/2 and 3/2 pilot valve DN 3 and DN 6

direct operated leakage free block type
normally closed (nc) or normally open (no)

working pressure: up to 700 bar (10.000 psi)
flow rate: up to 5 l/min (DN 3) up to 15 l/min (DN 6)
ambient temperature: -25°C to +60°C

EEx de II B + H₂ T4

12 V to 250 V AC/DC

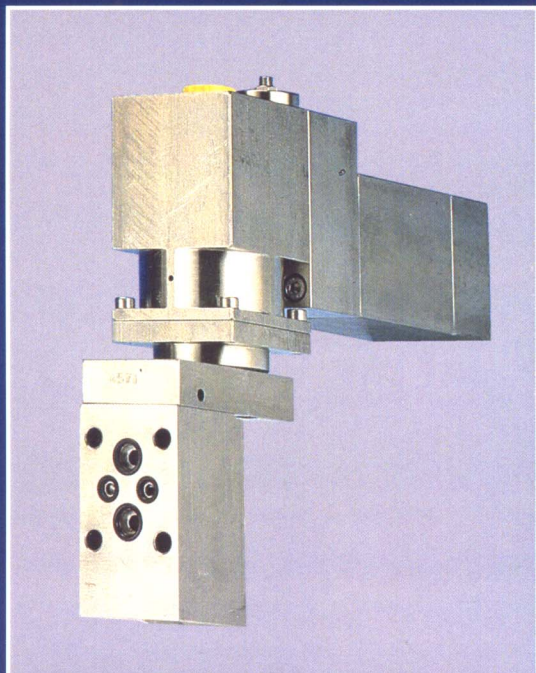
13 W (DN 3)

20 W (DN 6)

materials:

options:

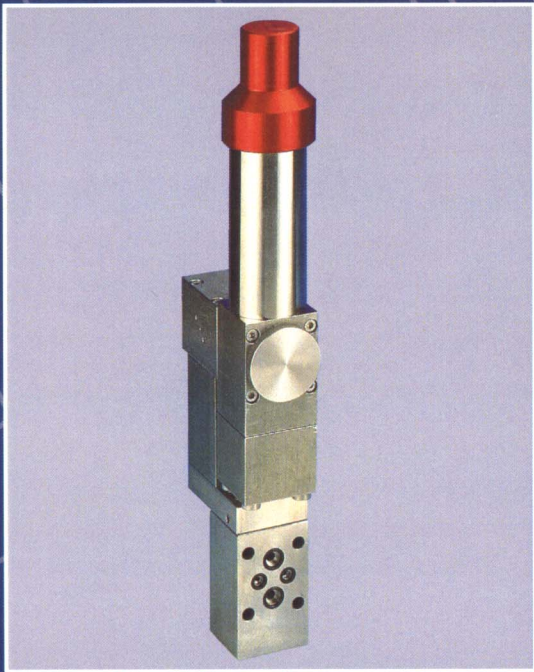
Titanium, AISI 316, hard-coated Aluminium,
Brass or Customer Specified
pneumatic or hydraulic operated (5 to 700 bar)
manual override and/or manual reset
ambient temperature -60°C



2/2 and 3/2 pilot valve DN 3 and DN 6 with delay function

direct operated leakage free block type
normally closed (nc) or normally open (no)

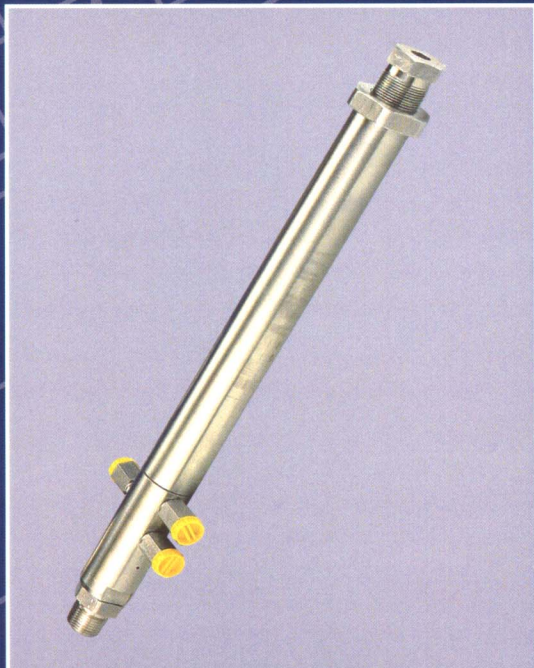
working pressure: up to 700 bar (10.000 psi)
flow rate: up to 5 l/min (DN 3) up to 15 l/min (DN 6)
pilot pressure: up to 10 bar (140 psi)
adjustable delay: 15 s to 60 s
ambient temperature: -25°C to +60°C
materials: AISI 316 or Customer Specified



2/2 and 3/2 high- or low-pilot valve DN 3/DN 6

direct operated leakage free block type
normally closed (nc) or normally open (no)
manual reset (reset differential pressure $\leq 1\%$)
sensing head friction free and Helium leak tested

working pressure:	up to 700 bar (10.000 psi)
flow rate:	up to 5 l/min (DN 3) up to 15 l/min (DN 6)
ambient temperature:	-25°C to +60°C
set point pressure:	50 mbar to 400 bar (0,7 psi to 5700 psi)
set point accuracy:	1% 1 bar to 250 bar (ANSI 1500) 2,5% 250 bar to 420 bar (ANSI 2500)
materials:	Approved by the DVGW according to DIN 3381 AISI 316 or Customer Specified
options:	Certified for sour gas installations BEB Nr.: QW 94 07 12/1 NACE MR 01-75



2/2 and 3/2 high- or low-pilot valve DN 1

direct operated leakage free
normally closed (nc) or normally open (no)

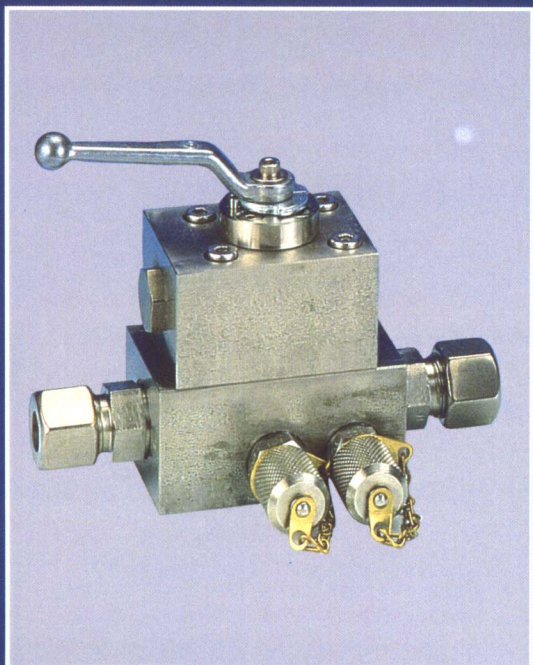
working pressure:	up to 10 bar (140 psi)
sensing pressure:	up to 700 bar (10.000 psi)
ambient temperature:	-25°C to +60°C
materials:	AISI 316, Alloy C or Customer Specified



2/2 and 3/2 valve DN 10 to DN 32

pilot operated leakage free block type
normally closed (nc) or normally open (no)
internally or externally piloted

working pressure:	up to 700 bar (10.000 psi)
flow rate:	40 l/min (DN 10) to 350 l/min (DN 32)
ambient temperature:	-25°C to +60°C
materials:	Titanium, AISI 316, hard-coated Aluminium, Brass or Customer Specified
options:	pneumatic or hydraulic operated (5 to 700 bar) manual override and/or manual reset ambient temperature -60°C



Test valve DN 6

leakage free

includes: check valve and two quick connector ports

working pressure: up to 260 bar (ANSI 1500)

flow rate: up to 15 l/min

ambient temperature: -25°C to +60°C

materials: AISI 316 or Customer Specified



Flow control valve for injection systems

available for all injection fluids

working pressure: up to 700 bar (10.000 psi)

flow rate (adjustable): 0 to 2 l/min (13 flow rate groups)

ambient temperature: -25°C to +60°C

materials: AISI 316 or Customer Specified

Manufacturing and Sales partner

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Fax : +31-71-5414484

Distributor Norway

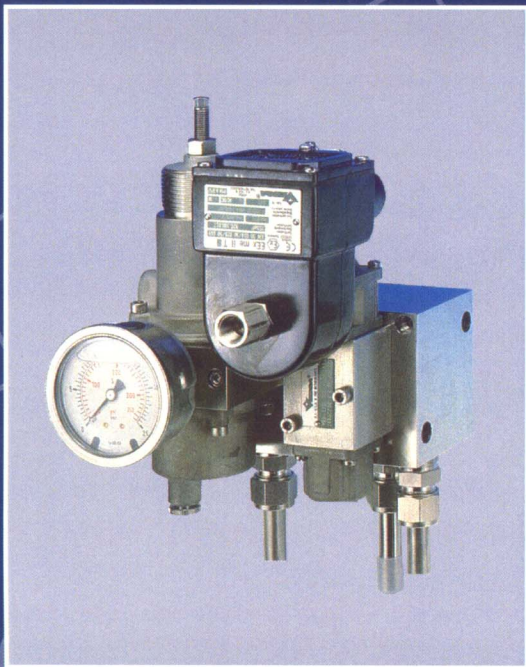
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Phone: +41-1-9460660
Fax : +41-1-9455510

Distributor United Kingdom

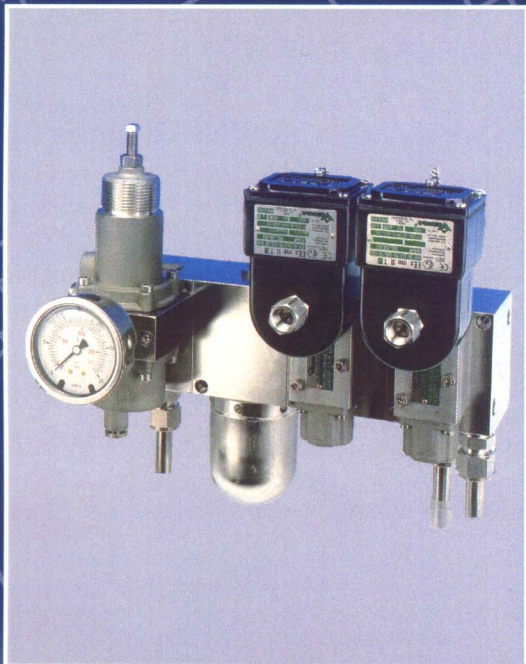
Versatile Controls Ltd
Innsworth Technology Park
Gloucester GL3 1DL England
Phone: +44-1452-731447
Fax : +44-1452-731621



Fail safe basic control manifold DN 10 for pneumatic actuators

includes: check valve (cartridge type)
filter regulator
lubricator (if necessary)
1x 3/2-way valve DN 10, EEx me II T6

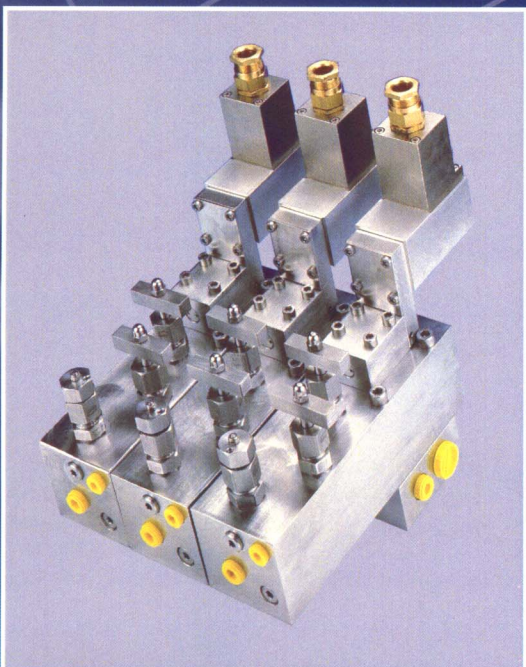
working pressure: up to 10 bar (140 psi)
flow rate: up to 3000 Norm l/min
ambient temperature: -25°C to +60°C
ports: 1/2" NPT
materials: AISI 316 or Customer Specified
options: also available for double acting actuators



Fail safe redundant control manifold DN 10 for pneumatic actuators

includes: check valve (cartridge type)
filter regulator
lubricator (if necessary)
2x 3/2-way valves DN 10, EEx me II T6

working pressure: up to 10 bar (140 psi)
flow rate: up to 3000 Norm l/min
ambient temperature: -25°C to +60°C
ports: 1/2" NPT
materials: AISI 316 or Customer Specified
options: also available for double acting actuators



Fail safe wellhead control manifold DN 10 for downhole, master and wing valve

leakage free

includes: 3x 3/2-way valves DN 10 (cartridge type)
3x 3/2-way pilot valves DN 2, EEx d II C T6

working pressure: up to 700 bar (10.000 psi)
flow rate: up to 40 l/min
ambient temperature: -25°C to +60°C
includes: shut-off valves for tube inspection
check valves and thermal relief valves
needle valves for opening time adjustment
ports for gauges, quick connectors and auxiliary pressure lines

cable glands: M20 x 1,5
materials: AISI 316 or Customer Specified
options: all pilot valves DN 2 may be used (see above)

Company Profile



Our company, founded in 1979, develops and manufactures valves and control units for all types of offshore and onshore applications.

The company's design and production engineers have more than 25 years' experience in the design and production of oil hydraulic, water hydraulic and pneumatic components and systems; their know-how in these fields guarantees high quality products and reliable solutions. The company's production facility is equipped with the latest numerically controlled (NC) machine tools. A high level of in-house manufacturing (up to 90% of total production) ensures high quality, flexibility and short delivery times.

The company's valves are suitable for operation with various fluids (mineral oil, HFA liquids, plain water, compressed air, natural gas and sour gas). They are manufactured to 2/2-way, 3/2-way, 4/2-way and 4/3-way designs, with nominal sizes from DN 2 to DN 200 and can be operated manually, mechanically or by pneumatic/hydraulic actuator or with a solenoid. The solenoids are available with various degrees of protection EEx (d), EEx (i) and EEx (m). Larger nominal sizes are internally or externally piloted. The operating pressure range of the valves extends to 700 bar (10.000 psi), or even 1200 bar (17.000 psi) in some cases.

The company's products also enjoy success in the following applications:

- Shut-off valves for hydroelectric power plants
- Control units for forging presses
- Units for desalination of sea-water
- Production lines for chipboard
- Rescue equipment
- Descaling units in hot strip rolling mills
- Control units for workface shields in the mining industry.



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