

SÜDMO VALVES FOR EXPLOSIVE ZONES BUTTERFLY VALVES, LEAKAGE BUTTERFLY VALVES AND BALL VALVES

RATED IN SIZES: METRIC DN ≤ 100, OD-TUBE ≤ 4'', ISO ≤ 80

General Restrictions

- they may not be used underground
- · the operator should ensure that nothing is being charged

· the maximum surface temperature of the component depends on the temperature of the handled substance,

- but pneumatic activated components can reach a surface temperature up to $+80^{\circ}$ C with an environment temperature of $+40^{\circ}$ C due to internal friction. \rightarrow The substances which can be handled in the component are limited by their ignition and glowing temperature.
- · there should be equipotential bonding of the complete unit

Additional Restrictions for Leakage Butterfly Valve Models

please bear in mind when classifying zones of the unit that product escapes from the valve inner chamber into the atmosphere if the bellows
or collar bursts

· an aseptic valve monitoring system cannot be used

Potential Areas of Application

	Category 1 (corresponds to zone 0/20)			Category 2 (corresponds to zone 1/21)			Category 3 (corresponds to zone 2/22)		
Product Range	e) IIA	plosion grou IIB	P IIC	e) IIA	plosion grou IIB	p IIC	ex IIA	plosion group IIB	IIC
Butterfly Valves	Х	Х		Х	Х	Х	Х	Х	Х
Leakage-Butterfly Valves	Х	Х		Х	Х	Х	Х	Х	Х
Ball Valves	Х	Х		Х	Х	Х	Х	Х	Х

The spaces marked X symbolise the potential areas of applications

- Category 1: Systems in this category are intended for use in zones where there is an explosive atmosphere where the air consists of air and gas mixtures, vapours, mists or mixtures of dust and air frequently, over long periods or continuously.
- Category 2: Systems in this category are intended for use in zones where it is expected that an explosive atmosphere where the air consists of air and gas mixtures, vapours, mists or mixtures of dust and air may occasionally occur.
- Category 3: Systems in this category are intended for use in zones where it is not expected that an explosive atmosphere where the air consists
- of air and gas mixtures, vapours, mists or mixtures of dust and air may occur, however if it does, then it is likely to only be rare or brief. Explosion group IIA: Some example substances from this group are acetaldehyde, acetone, ammonia, benzole, butane,
 - 2-butanone, cyclohexane, 1,2-dichloroethane, dichloromethane,
 - 2,2-dimethylbutane, ethyl acetate, ethane, heptane, hexane, methane,
 - methanol, 2-methylbutane, methylcyclohexane, pentane, prophane, tetrafluoroethene,
 - tetrahydro-2H-pyran, 1,1,1-trichloroethane, trichloroethane
- Explosion group IIB: Some example substances from this group are acrylonitrile, 1,3-butadiene, cyclopropane, diethyl ether,

ethene, ethylene oxide, cis-2-pentene, trans-2-pentene, 1-propyne, propylene oxide

Explosion group IIC: Some example substances from this group are acetylene, carbon disulphide or hydrogen.

All components intended for use in an explosive zone are supplied with operating instructions.



SÜDMO COMPONENTS GMBH

INDUSTRIESTRASSE 7, 73469 RIESBÜRG GERMANY WWW.SUEDMO.DE

All Pentair trademarks and logos are owned by Pentair, Inc. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

ATEX-1 /13 © 2012 Pentair, Inc. All Rights Reserved.