Core Competences: Hazardous Locations

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Competence and Global Experience

From Basel to Calgary, São Paulo to Ludwigshafen, and from New Jersey to Shanghai Bürkert connects a world of process solutions to work safely in hazardous locations.

Across global guidelines, norms, standards and laws and spanning dynamic conditions of global competition we are ready to work towards your success. A synergy of knowledge of both the regional guideline and specific ex product technology means we are the specialist you can trust.

We have decades of European and global experience and we have always been positioned at the forefront of explosion protection technology. Our initial solenoid valve experience has expanded to expertise in decentralized networking and communication in the process environment as a whole.

Our system approach is designed to secure both your safety and your competitive advantage ensuring all of our combined knowledge is made available to you through consultation, engineering support, selection and commissioning.

We believe we have intimate knowledge and significant insight into the application environments which traverse a spectrum of processing industries from pharmaceuticals and fine chemicals, cosmetics, distilleries, to oil refining and natual gas production

Everyone in our organisation is interested in listening to you with the aim of presenting you with only the most appropriate solution fluently in your daily application language.



Our Range of Solutions

Bürkert provides cutting edge solutions for your hazardous location process control.

An otherwise unattainable synergy of hardworking valve elements, process actuation, sensors and networked communication provide a true single source of remarkable attractive hazardous location systems. We aim to provide real peace of mind, process safety and joy of use.

In the explosion proof world where certification, compactness, smart communication, and security are everyday concerns our wide product range provides process efficiency and higher yields by offering you unlimited process modularity.



8070 flow meter for continuous measurement in ATEX G/D



2731diaphragm control valve with 8635 electropneumatic positioner SideControl



6519 servo-assisted solenoid valve deliverable in standard, EExm, EExi, CSA, FM and NAMUR



0450 spool valve with threaded port or Namur Interface



8643 I/O Box for Profibus PA or Foundation Fieldbus



8644 AirLINE process control center



Quality System

ISO 9001 Certified quality system



Global Certifications

We have always developed our products with the aim of making your life simpler. Here are some of the certifications we have gained for our products and systems....

International Ex Certifications

International Electronical Commission

European Certifications

& Guidelines

ATEX

Pressure device guideline

VDE

KTW

Safety stop valve

North American Certifications

& Guidelines

UL Listed

UL Recognized

UL Classified

Factory Mutual

Canadian Standards Association

North American Ex permissions

NEC article 500 NEC article 505









FOUNDATION













Marking of Explosion Proof Bürkert Components



Corresponds to guideline 94/9/ EEC II groups of equipment

ш

Equipment group

I = mining industry II = everything except mining industry

2G

Categories after ATEX

Burkert components fulfills the conditions for all ATEX wcategories, i.e. for:

Category 1:

"G" ~ gas; for the application in the zones 0, 1 and 2 "D" ~ dust; for the application in the zones 20, 21 and 22

Category 2:

"G" ~ gas; for the application in the zones 1 and 2 "D" ~ dust; for the application in the zones 21 and 22

Category 3:

"G" ~ gas; for the application only in the zone 2

"D" ~ dust; for the application only in the zone 22

Explosion-proof operational funds

Ignition enclosures

particulars or in combination fulfill our components the criteria of these ignition enclosures:

m: Encapsulalation

Encapsulalation of parts, which could ignite a combustible atmosphere by sparks or heating up, are into sealing compound embedded.

e: Increased safety

With a increased degree of safety is prevented the possibility of inadmissibly high temperatures and developing arcs in the inside or at outside parts of electrical operational funds.

d: flameproof enclosure

Pressure resistant packaging ignition enclosure, at which the inside one the housing an explosion can take place, their pressure (between 5 bar and 10 bar) the housing withstands and a transmission the explosion on, the combustible atmosphere surrounding the housing prevented.

i: Intrinsic safety

Basic principle is an electric circuit, in which no explosive sparks or thermal effects can occur. This ignition enclosure refers to the entire electric circuit, from the power source over the wiring up to the terminal.

IIC

Employment for the groups of gases of II A, II B and II C

T4

Temperature classes

These designate the lowest temperature, at which the inflammation of a gas/air mixture or a steam/air mixture at a surface heated up occurs. Burkert components cover these temperature classes:

Maximum surface temperature 135°C T5:

Maximum surface temperature 100°C

T6:

Maximum surface temperature 85°C

PTB

Certifying authority, which provided the design inspection certificate.

07

The year, in which the design examination was accomplished.

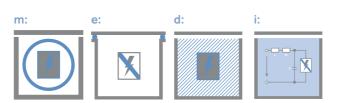
1067

Document number, under which this procedure is to be found with the certification authority.

X

This X refers to special conditions for the enterprise of the equipment. These special conditions are to be found in the operating instructions and the permission of the equipment. They contain important safety-relevant references like:

- Back-up values for the security of the equipment
- Different temperature classes in dependence of the mounting







Safety Integrated - AirLINE Ex



AirLINE Ex Type 8650 is the world's first modular electro-pneumatic automation system for zone 1 and 21. Electrical and pneumatic control have finally come together in the form of the SIMATIC ET 200iSP® from Siemens and Bürkert's revolutionary AirLINE.

AirLINE Ex with SIMATIC ET 200iSP® fulfills future-safe control (Profibus DP) and electrical I/O functions and is designed to save you time and effort through intelligent decentralization.

The connection of sensors and actuators (in zones 0 or 20) to bus systems significantly reduces wiring costs and increases process flexibility.

This modular and compact solution offers simple diagnostics and parametrization via an EDD (Electronic Device Description) and the complete integration in Siemens PCS7 and STEP7.

AirLINE Ex conforms to global ATEX, CSA, FM and IEC guidelines and is delivered as a preassembled, fully tested and certified system or as part of a finished certified "plug and work" cabinet.



AirLINE Ex Type 8650 can be configured to your requirements in a precisely structured way.



Cool Connection for Hot Environments

The Power IO Box Type 8643 is designed simply to connect you efficiently to your decentralized binary devices.

Rugged and reliable hardware supplies four intrinsically safe digital outputs for a broad range of actuators such as solenoid valves or relays while eight intrinsically safe digital NAMUR inputs provide information from your sensor switches in the field.

Employing either Profibus PA or Foundation Fieldbus H1 interfaces, Type 8643 offers functional input and output modules and integrates parameterised diagnostics and monitoring functions to meet the varied need of process engineers and programmers.

The unit is designed to meet IP65 and a working range -20°C to + 60°C in engineered polyester or aluminum case.

This communication hub exhibits lowest total installed cost of ownership in areas where ultimate process security is a must.

Communicate with the remotest part of your plant...simply.



Leave it to us

We know how to make process control cabinets that hit the mark simply because we have the right people, the right tools and the right procedures that allow us to integrate safety in every step.

Our Systemhaus teams in regional locations (Menden, Charlotte, Ingelfingen, Suzhou and Dresden) have attained substantial global accreditations and are all involved in continuous lean innovation to produce advantages you can count on.

In each location our highly qualified, empowered people have the right project management skills to surpass your expectations. You get all the necessary documentations, proven functional tests and conformity paperwork on time and systematically. Our know-how is built to create faster, simpler and more economical solution.

Additionally we are both willing and able to be onsite with you or for you anywhere in the world. Our global installation, commissioning and training services are second to none. We can set up a certified and completely equipped process control cabinet in Basel, Beijing or Boston.

When you link our technology leadership in integrated communication with our passion for quality it is not surprising that cusomers insist on certified systems built by Bürkert.



Safety in every step: Ex cabinet building is daily business at our Systemhaus in Menden, Germany.

The Critical Service Dimension

Perfect delivery of components and systems is only one dimension in providing comprehensive solutions for our global clients.

We also offer a comprehensive program of interlinking services which include:

>> Personal Consultation and Individual Configurations

We share our knowledge both by embedding our expertise in the product and by really listening to your requirements with your success in mind. We are only content when your specific problem was solved.

>> Everything from one Partner

We have tens of thousand of process engineering products in our program. We know exactly how to program them, install them and combine them according to your wishes.

>> Customer Service around the Clock

We offer support though internet, telephone or people on the ground at your site. We are available around the clock.

>> Start-up

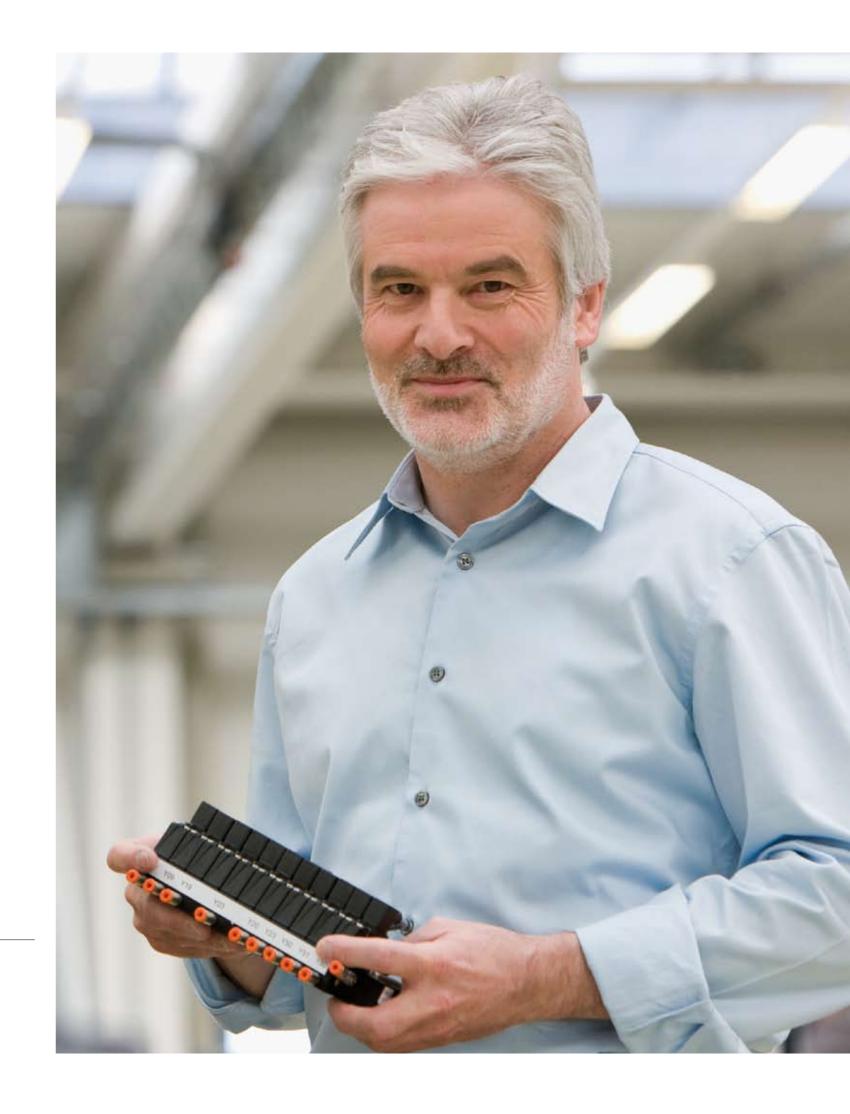
We are always available for installation and commissioning and local staff and operator training.

>> Global Operations

We are close by in 35 countries in a network which guarantees the full achievement of our enterprise to each customer on each continent.

One of Bürkert's 2,100 employees worldwide: friendly, competent and reliable.





Products with ATEX, FM-EX and CSA Certifications

| | | Liquids/Gases | | | Dust | | |
|-----------|--|---------------|--------|--------|---------|---------|---------|
| Туре | Description | Zone 0 | Zone 1 | Zone 2 | Zone 20 | Zone 21 | Zone 22 |
| | | | | | | | |
| 0121 | 2/2 3/2 Way Solenoid Valve for Aggressive Media | • | Х | Х | • | • | Х |
| 0124 | 2/2 3/2 Way Solenoid Valve for Aggressive Media | • | X | Х | • | • | Х |
| 0125 | 2/2 3/2 Way Solenoid Valve for Aggressive Media | • | X | Х | • | • | Х |
| 0211 | 2/2 Way Solenoid Valve | • | X | X | • | | Х |
| 0212 | 2/2 Way Solenoid Valve | • | X | X | • | • | Х |
| 0243 | 2/2 Way Solenoid Valve | • | X | X | • | • | Х |
| 0253 | 2/2 Way Solenoid Valve | • | X | X | • | • | Х |
| 0255 | 2/2 Way Solenoid Valve | • | X | X | • | • | Х |
| 0256 | 2/2 Way Solenoid Valve | • | Х | Х | • | • | Х |
| 0280 | 2/2 Way Solenoid Valve | • | | • | | | • |
| 0281 | 2/2 Way Solenoid Valve | • | • | • | • | • | • |
| 0282 | 2/2 Way Solenoid Valve | • | | | | | |
| 0290 | 2/2 Way Solenoid Valve | | | | | | |
| 0311 | 3/2 Way Solenoid Valve | | Х | Х | | | Х |
| 0312 | 3/2 Way Solenoid Valve | | Х | Х | | | Х |
| 0330 | 3/2 Way Solenoid Valve | | X | X | | | X |
| 0331 | 3/2 Way Solenoid Valve | | X | X | | | X |
| 0340 | 3/2 Way Solenoid Valve | | X | X | | | X |
| 0343 | 3/2 Way Solenoid Valve | | X | X | | | X |
| 0344 | 3/2 Way Solenoid Valve | | X | X | | | X |
| 0353 | 3/2 Way Solenoid Valve | • | X | X | • | • | X |
| 0355 | 3/2 Way Solenoid Valve | | X | X | | | X |
| | , | - | ^ | ^ | | | |
| 0404 | 2/2 Way Solenoid Valve | | | | | | |
| 0406 | 2/2 Way Solenoid Valve | | • | | • | | |
| 0407 | 2/2 Way Solenoid Valve | • | | • | • | • | • |
| 0411 | 3/2 Way Solenoid Valve, Servo-Assisted | • | • | • | • | • | • |
| 0413 | 4/2 Way Solenoid Valve, Servo-Assisted | • | • | • | • | • | • |
| 0420 | 4/2 Way Solenoid Valve, Servo-Assisted | • | • | • | • | • | • |
| 0450 | 3/2 4/2 5/2 5/3 Way Solenoid Valve, Servo-Assisted | • | Х | Х | • | Х | Х |
| 0581 | 2/2 Way Solenoid Valve | • | X | • | • | • | • |
| 0590 | 3/2 4/2 5/2 5/3 Way Solenoid Valve, Servo-Assisted | • | Х | Х | • | Х | Х |
| 0641 | 2/2 Way Solenoid Valve | Х | X | • | • | • | • |
| 0642-0649 | 2/2 3/2 Way Solenoid Valve | • | X | • | • | • | • |
| 0651-0659 | 2/2 3/2 Way Solenoid Valve | • | Х | • | • | • | • |
| 0725 | 2/2 Way Solenoid Valve | • | X | • | • | • | • |
| 0741-0742 | 2/2 3/2 Way Solenoid Valve | • | X | • | • | | • |
| 0751-0752 | 2/2 3/2 Way Solenoid Valve | • | Х | • | • | • | • |
| 0770-0779 | 2/2 3/2 Way Solenoid Valve | • | Х | • | • | | |
| 0780-0789 | 2/2 3/2 Way Solenoid Valve | • | Х | • | • | • | • |
| 1058 | Protection Fuse | • | Х | • | | | |
| 1062 | Electrical Position Feedback | • | Х | • | • | Х | • |
| 1067 | Positioner SideControl | | | Х | | | Х |
| 1094 | Control Electronics for Proportional Valves | | | Х | • | • | Х |
| 1098 | Electronic Gasmonitoring | Х | | | | | |
| 2000 | Process Valve | • | Х | • | • | Х | - |
| 2030/1 | Process Valve | | X | | | X | - |
| 2200 | 2/2 Way Solenoid Valve | | X | Х | | | Х |
| 2400 | 2/2 Way Solenoid Valve | | X | X | | | X |
| 2822 | Proportional Valve | | | X | | | X |
| 2832 | Proportional Valve | X | X | X | | | X |
| 2002 | 1 Toportional valve | ^ | ^ | ^ | | | ^ |

| Te | emperature cla | SS | FM | -Ex | CSA | | | |
|----------------------|---|----------|----------|----------|----------|--------|--|--|
| T4 | T5 | T6 | Div. 1 | Div. 2 | Div. 1 | Div. 2 | | |
| Some type numbers of | ome type numbers can change with the certificate! | | | | | | | |
| • | 789 | • | • | • | • | • | | |
| • | 788 | • | • | • | • | • | | |
| • | 788 | • | | • | | • | | |
| 641 | 651 | | Х | X | Х | | | |
| 642 | 652 | • | Х | Х | Х | • | | |
| 721 | | 731 | • | • | • | • | | |
| 648 | 658 | • | | Х | | • | | |
| 742 | 752 | | | X | | | | |
| 741 | 751 | • | | X | • | • | | |
| • | | • | Х | Х | Х | | | |
| • | | | Х | Х | Х | | | |
| | | • | Х | Х | | | | |
| | | • | | X | • | • | | |
| 643 | 653 | | Х | Х | Х | | | |
| 644 | 654 | | Х | Х | Х | • | | |
| 770 | 780 | | Х | Х | | X | | |
| 770 | 780 | • | Х | Х | • | Х | | |
| 776 | 786 | | Х | Х | | X | | |
| 777 | 787 | | | • | | | | |
| 775 | 785 | | | | | | | |
| 649 | 659 | | • | Х | | | | |
| 744 | 754 | | | X | | | | |
| - 711 | • | | X | X | X | | | |
| | | | • | X | • | | | |
| | | | | X | | | | |
| • | | | X | X | X | | | |
| • | | • | X | X | X | | | |
| • | | • | X | X | X | • | | |
| • | 450/650 | 450 | | • | • | • | | |
| X | 430/030 | - | X | • | X | | | |
| X | X | X | | | | • | | |
| X | • | • | | | | • | | |
| X | - | | • | • | • | | | |
| • | X | | | | | | | |
| X | | | | | - | - | | |
| | | | | | • | • | | |
| X | | | <u> </u> | <u> </u> | <u> </u> | • | | |
| • | X | <u> </u> | <u> </u> | • | | • | | |
| X | X | • | • | • | • | • | | |
| | | | | | | | | |
| • | • V | • | • | • | • | • | | |
| X | Х | X | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| X . | • | • | • | • | • | • | | |
| | • | • | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| X | • | • | • | • | • | • | | |
| Х | • | • | • | • | • | • | | |

Products with ATEX, FM-EX and CSA Certifications

| | | Liquids/Gases | | | Dust | | |
|---------|--|---------------|----------------|--------|---------|---------|---------|
| Туре | Description | Zone 0 | Zone 1 | Zone 2 | Zone 20 | Zone 21 | Zone 22 |
| | | | | | | | |
| 2834 | Proportional Valve | • | X | Х | • | • | X |
| 3004 | Rotary Actuator | • | X | • | • | X | • |
| 5281 | 2/2 Way Solenoid Valve | • | X | Х | • | X | Х |
| 5282 | 2/2 Way Solenoid Valve | • | Х | X | • | • | X |
| 5404 | 2/2 Way Solenoid Valve | • | X | Х | • | Х | Х |
| 5411 | 3/2 Way Solenoid Valve, Servo-Assisted | • | Х | Х | • | Х | Х |
| 5413 | 4/2 Way Solenoid Valve, Servo-Assisted | • | X | X | • | Х | Х |
| 5420 | 4/2 Way Solenoid Valve, Servo-Assisted | • | Х | Х | • | Х | Х |
| 5470 | 4/2 Way Solenoid Valve, Servo-Assisted | • | X | X | • | • | Х |
| 5686 | 2/2 Way Solenoid Valve | | Х | • | | Х | |
| 6013 | 2/2 Way Solenoid Valve | Х | Х | Х | | Х | Х |
| 6014 | 3/2 Way Solenoid Valve, Servo-Assisted | | Х | Х | | Х | Х |
| 6017 | 2/2 Way Solenoid Valve | • | | Х | • | • | Х |
| 6022 | Proportional Valve | Х | Х | Х | • | Х | Х |
| 6038 | 2/2 Way Solenoid Valve | | | X | | • | X |
| 6041 | 2/2 3/2 Way Solenoid Valve | | Х | X | | | X |
| 6104 | 2/2 3/2 Way Solenoid Valve | | X | | | | |
| 6106 | 2/2 3/2 Way Solenoid Valve | | X | Х | | | Х |
| 6115 | Piezo-Electric Valve | | X | | | | |
| 6144 | 2/2 3/2 Way Solenoid Valve | | X | X | | | X |
| | * | | | | | | |
| 6213 | 2/2 Way Solenoid Valve | • | in preparation | X | • | • | X |
| 6221 | 2/2 Way Solenoid Valve | • | Х | Х | • | X | Х |
| 6222 | 2/2 Way Solenoid Valve | • | Х | • | • | Х | • |
| 6240 | 2/2 Way Solenoid Valve | • | • | Х | • | • | Х |
| 6510/11 | 3/2 4/2 Way Solenoid Valve | • | Х | • | • | • | • |
| 6516/17 | 3/2 5/2 Way Solenoid Valve | • | Х | Х | • | • | Х |
| 6518/19 | 3/2 5/2 Way Solenoid Valve | • | Х | Х | • | Х | Х |
| 6520/21 | Piezo-Electric Valve | • | Х | • | • | • | • |
| 6524/25 | 3/2 5/2 Way Solenoid Valve | • | X | • | • | • | • |
| 6526/27 | 3/2 5/2 Way Solenoid Valve | • | X | • | • | • | |
| 8030 | Paddle-Wheel Flow Sensor | X | • | X | X | X | X |
| 8060 | Vortex Flow Sensor | X | • | • | • | • | • |
| 8111 | Vibrating Level Switch | X | X | • | • | • | • |
| 8112 | Vibrating Level Switch | X | X | • | | | |
| 8136 | Radar Level Transmitter | X | X | • | • | • | • |
| 8137 | Radar Level Transmitter | Х | Х | • | • | • | • |
| 8138 | Radar Level Transmitter | Х | Х | • | • | • | • |
| 8176 | Ultrasonic Level Transmitter | Х | X | • | • | • | • |
| 8177 | Ultrasonic Level Transmitter | Х | Х | • | • | • | • |
| 8178 | Ultrasonic Level Transmitter | Х | Х | • | | | |
| 8185 | Guided Microwave Level Transmitter | Х | Х | • | • | • | • |
| 8186 | Guided Microwave Level Transmitter | Х | Х | • | • | | |
| 8630 | Switching Cabinets | • | Х | Х | • | • | • |
| 8630 | TopCONTROL continous | | | Х | | | Х |
| 8631 | TopCONTROL ON/OFF | | Х | • | • | • | • |
| 8635 | SideCONTROL | | X | | | | |
| 8642 | IO-Box | | X | | | | |
| 8643 | Power IO-Box | | X | | | Х | |
| 8644 | AirLINE | | • | X | • | • | |
| 8650 | AirLINE Ex | | X | • | | | |
| | | 1 7 | ^ | | 1 - | 1 - | · - |

| Те | mperature cla | SS | FM | -Ex | CSA | |
|-------|---------------|----|----------------|----------------|----------------|----------------|
| T4 | T5 | T6 | Div. 1 | Div. 2 | Div. 1 | Div. 2 |
| | | | | | | |
| Х | • | • | • | • | • | • |
| • | • | Х | • | • | • | • |
| Х | Х | • | X | X | X | • |
| X | Х | • | X | X | • | X |
| X | • | • | • | X | X | • |
| - | Х | Х | Х | Х | Х | • |
| • | Х | Х | Х | X | Х | • |
| • | Х | Х | • | Х | Х | • |
| • | • | Х | Х | • | • | • |
| Х | • | • | • | • | • | • |
| X | X | Х | X | X | X | • |
| X | Х | Х | Х | X | X | • |
| X | • | • | • | X | • | • |
| T3/T4 | | | X | × | X . | • |
| X | X | • | | • | • | |
| • | • | X | X | | • | - |
| • | | X | X | • | • | |
| • | • | X | | • | | |
| | | X | | | | |
| Х | | | Х | Х | X | |
| X | | | • | X | • | |
| X | | • | Х | • | X | |
| Х | | • | • | X | • | |
| • | | Х | Х | • | • | • |
| • | | Х | X | | • | |
| Х | Х | Х | X | X | X | • |
| • | • | Х | • | • | • | • |
| • | • | Х | • | • | • | • |
| • | • | Х | • | • | • | • |
| • | • | Х | • | • | • | • |
| T3 | • | • | • | • | • | • |
| • | • | Х | • | • | • | • |
| • | • | Х | • | • | • | • |
| • | • | X | • | • | • | • |
| • | • | X | • | • | • | • |
| • | • | X | • | • | • | |
| • | • | X | • | • | • | |
| • | | X | | | • | |
| • | - | X | | • | | |
| • | | X | • | • | • | |
| Χ | • | | | • | | |
| X | | | | | | |
| • | | Х | • | | • | - |
| • | - | X | Х | Х | • | |
| • | • | Х | • | • | • | • |
| Х | | • | • | in preparation | • | in preparation |
| Х | • | • | • | • | • | • |
| Х | • | • | in preparation | • | in preparation | • |
| • | • | X | • | • | • | • |

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