



Rupture Disk Device Quick Reference Guide

Rupture Disk Quick



Sta-Saf® System

The Sta-Saf system is the combination of solid metal reverse buckling disks with pre-torqued safety heads.

Standard Features

- Operating ratio up to 100% (CE) / 95% (ASME)
- Full vacuum resistant
- SRB-7RS and SRB-7FS pre-torqued safety heads
- Solid metal construction enabling optimum leak tightness
- Designed for non-fragmentation
- Recommended for isolation of pressure relief valves
- Metal tag with product identification and traceability data, as well as code symbol stamps as appropriate

| | Sigma™ and Sigma EXL™ ^(IP) | SK_R™ ^(IP) | LPST™ ^(IP) |
|------------------------------------|--|---|---|
| | | | |
| Disk Sizes | 1-8 inches (25-200mm) | 1-10 inches (25-250mm) | 1-8 inches (25-200mm) |
| Burst Pressures | 15-500 psig (1-34.5barg) | 15-500 psig (1-34.5barg) | 5-70 psig (0.3-4.8barg) |
| Material | *Standard, except aluminum | *Standard, except aluminum | *Standard, except aluminum |
| Loading (direction of flow) | | | |
| Service Phase | Gas or liquid | Gas or liquid | Gas or liquid |
| Manufacturing Design Range | 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% |
| Cycle Life (resistance to fatigue) | Best | Best | Best |
| Max Operating Pressure | 95% ASME (100% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) |
| Vacuum Support Required | No | No | No |
| Designed for Non-Fragmentation | Yes | Yes | Yes |
| Safety Relief Valve Isolation | Yes | Yes | Yes |
| Safety Head | SRB-7RS, S90-7R, and SRB-7FS | SRB-7RS, S90-7R, SRB-7FS, SPR-7R, and SR-7R | SRB-7RS, S90-7R, SRB-7FS, SPR-7R, and SR-7R |

* Standard materials: aluminum, nickel alloy 200, Inconel® alloy 600, Monel® alloy 400, 316L ss, Hastelloy® alloy C-276, tantalum, titanium, Hastelloy® alloy C-22, Inconel® alloy 625, niobium.

^(IP) US patents 5996605, 6178983, 6321582 and 6446653; International patents apply

Reference Guide

| S-90™ | RLS™ | JRS™ | SRD/ SRD-L ^(P) | | |
|---|---|---|---|---------------------------------------|---|
|  |  |  |  | | Safety Heads |
| 1-40 inches (25-1,000 mm) | 1-20 inches (25-500 mm) | 1-42 inches (25-1,070 mm) | 1-12 inches (25-300 mm) | Disk Sizes |  SRI-7RS™ Pre-torqued Insert Design |
| 20-1,000 psig (1.4-69 barg) | 20-2,000 psig (1.4-138 barg) | 5-180 psig (0.4-12.4 barg) | 12-750 psig (0.83-51.7 bar) | Burst Pressures |  SRB-7RS™ Pre-torqued Insert Design |
| *Standard | *Standard, except aluminum | *Standard, except aluminum | *Standard except Aluminum | Material |  SRB-7FS™ Full Bolted Design |
|  |  |  |  | Loading (Direction of Flow) |  S90-7R™ Pre-assembled Insert Design |
| Gas or liquid with gas pocket** | Gas or liquid | Gas or liquid with gas pocket** | Gas or Liquid | Service Phase |  SPR-7R™ Extended Outlet / Disk Petal Containment |
| 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% | Manufacturing Design Range |  SR-7R™ Pre-assembled Insert Design for use with Burst Alert® Magnetic Sensors |
| Best | Best | Best | Best | Cycle Life (Resistance to Fatigue) | |
| 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) | Max Operating Ratio | |
| No | No | No | No | Vacuum Support Required | |
| Yes | Yes | Yes | Yes | Designed for Non-Fragmentation | |
| Yes | Yes | Yes | Yes | Safety Relief Valve Isolation | |
| SRI-7RS, SRB-7RS, S90-7R, SRB-7FS, SPR-7R, and SR-7R | SRI-7RS, SRB-7RS, S90-7R, SRB-7FS, SPR-7R, and SR-7R | SRI-7RS, SRB-7RS and SRB-7FS | SRI-7RS, SRB-7RS, S90-7R, SRB-7FS, SPR-7R, and SR-7R | Safety Head | |

** Consult BS&B

Rupture Disk Quick

Alternative Reverse Buckling Disks

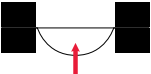
- **FRS™** - innovative frustum design disk providing overpressure relief at low pressure; the circular score line has an interrupted 'hinge' segment which retains the disk's central petal and prevents fragmentation
- **Eco-Saf® ECR™** - offers the lowest burst pressures available from a reverse buckling disk; The disk relieves overpressure or vacuum by reversing and opening at the perimeter of the dome
- **Sure-Saf® CSI™** - uses SAF technology (structural apex forming), which enhances accuracy of burst pressure
- **RB-90™** - provides overpressure protection by reversing and snapping against precision stainless steel knife blades
- **SVI™** - a single-use rupture disk assembly (no holder required) for isolating safety relief valves; For retrofit with fixed piping
- **SK_r-U™** - an all purpose SK_r rupture disk partnered with a threaded union-type holder

| | FRS™ /FRL™ | Sure-Saf® CSI™ | Eco-Saf® ECR™ ^(P) |
|---|---|--|---|
| |  |  |  |
| Disk Sizes | 1-2 inches (25-50mm) | 1-8 inches (25-200mm) | 1-24 inches (25-600mm) |
| Burst Pressures | 11.5-150 psig (0.8-10.3 barg) | 30-500 psig (2.1-34.5 barg) | 1-180 psig (0.07-12.4 barg) |
| Material | *Standard, except aluminum | *Standard, except aluminum | *Standard, except aluminum with gaskets |
| Loading (Direction of Flow) |  |  |  |
| Service Phase | FRS = gas FRL = liquid | Gas or liquid | Gas or liquid |
| Manufacturing Design Range | 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% |
| Cycle Life (Resistance to Fatigue) | Best | Best | Best |
| Max Operating Ratio | 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) |
| Vacuum Support Required | No | No | *** |
| Designed for Non-Fragmentation | Yes | Yes | Yes |
| Safety Relief Valve Isolation | Yes | Yes | Yes |
| Safety Head | SRI-7RS, SRB-7RS, S90-7R, and SRB-7FS | CSR-7RS | EC-7RS and EC-7R |

* Standard materials: aluminum, nickel alloy 200, Inconel® alloy 600, Inconel® alloy 625, Monel® alloy 400, niobium, 316L ss, Hastelloy® alloy C-276, tantalum, titanium, Hastelloy® alloy C-22

*** Some pressure combinations may require a vacuum support
US patents 5996605, 6321582, 6446653

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| RB-90™ | SVI™ | SK _R -U™ <small>®</small> | |
|---|---|---|---------------------------------------|
|  RB-7R™ |  |  | |
| 1-36 inches (25-900mm) | 1.5-6 inches (50-150mm) | 1-2 inches (25-50mm) | Disk Sizes |
| 10-1,800 psig (0.7-124.1barg) | 3-125 psig (0.14-8.62barg) | 55-500 psig (3.8-34.5barg) | Burst Pressures |
| *Standard | *Standard, except aluminum | *Standard, except aluminum | Material |
|  |  |  | Loading (Direction of Flow) |
| Gas or liquid with gas pocket** | Gas or liquid with gas pocket** | Gas or liquid | Service Phase |
| 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% | Manufacturing Design Range |
| Best | Best | Best | Cycle Life (Resistance to Fatigue) |
| 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) | Max Operating Ratio |
| No | No | No | Vacuum Support Required |
| Yes | Yes | Yes | Designed for Non-Fragmentation |
| | Yes | Yes | Safety Relief Valve Isolation |
| RB-7R | | U _R -2 | Safety Head |

Safety Heads

EC-7RS™ and EC-7R™ safety heads



Preassembled Design

CSR-7RS™ safety head



Holder Outlet Design,
Unscored Portion of Disk Prevents Fragmentation

RB-7R™ Safety Head



Insert Type

U_R-2 Safety Head



Union Holder

* Standard materials: aluminum, nickel alloy 200, Inconel® alloy 600, Monel® alloy 400, 316L ss, Hastelloy® alloy C-276
Special materials: tantalum, titanium, Hastelloy® alloy C-22, Inconel® alloy 625

** Consult BS&B

*** Refer to LPS-U for lower burst pressures and RLS-U for higher burst pressures

® US patents 5996605, 6178983, 6321582 and 6446653; International patents apply




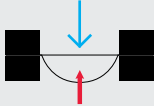
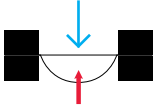
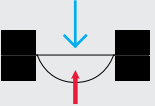
Rupture Disk Quick

Vac-Saf® Rupture Disks

The Vac-Saf system offers two-way relief to provide maximum protection of gas or liquid storage vessels and plant from damage caused by excessive vacuum or overpressure. Also available in industrial versions for installation in standard companion flange safety head models.

Sanitary Rupture Disks

- GCR-S™ - the leading sanitary / aseptic rupture disk with integral gasket, installed directly to tank fittings
- GCR-N™ - installs in a NovAseptic NA-connect® holder; The disk is flush mounted with the interior wall of the vessel for easy cleaning and sterilization
- SLP-S™ - provides the lowest burst pressure in each available size
- GLP-S™ - alternative installation design with traditional safety head

| | | Vac-Saf® Rupture Disks | | |
|------------------------------------|--|--|---|--|
| | | HiLo™ ® | VKB and P/VKB™ | AVB-ST™ and P/AVB-ST™ |
| | |  |  |  |
| Disk Sizes | | 2-12 inches (50-300mm) | 2-12 inches (50-300mm) | 2-8 inches (50-200mm) |
| Burst Pressures | | 5-300 inches WC (low) / 3-125 psi (high) (9-560mm Hg / 0.2-8.6bar) | 5.5-52 inches WC (low)/ 6-170psi (high) (10-97mm Hg / 0.2-8.6bar) | 3-40 psig (0.2-2.8bar) |
| Material | | *Standard (not aluminum) and special | *Standard (not aluminum) and special | *Standard (not aluminum) and special |
| Loading (Direction of Flow) | |  |  |  |
| Service Phase | | Gas or liquid with gas pocket** | Gas or liquid with gas pocket** | Gas or liquid |
| Manufacturing Design Range | | 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% |
| Cycle Life (Resistance to Fatigue) | | Better | Better | Better |
| Max Operating Ratio | | 80% ASME (90% for some designs) (85% PED) | 80% ASME (90% for some designs) (85% PED) | 80% ASME (85% PED) |
| Vacuum Support Required | | No | No | No |
| Designed for Non-Fragmentation | | Yes | Yes | Yes |
| Safety Relief Valve Isolation | | No | No | No |
| Safety Head | | HL-7RS, HL-7R, HL-C | Quik-Sert | VB-C, P/VB-C |

* Standard materials: aluminum, nickel (alloy 200), Inconel® (alloy 600), Monel® (alloy 400), 316L ss, Hastelloy® (alloy C-276) Special materials: tantalum, titanium, Hastelloy® (alloy C-22), Inconel® (alloy 625)

** Consult BS&B

US patents 7011104 and 7308903 apply

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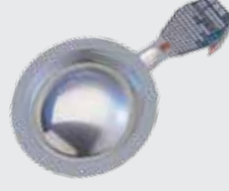




| GCR-S™ | GCR-N™ | SLP-S™ | GLP-S™ | |
|--|--|---|--|---------------------------------------|
|  |  |  |  | |
| 1.5-4 inches (40-100mm) | 1.5-2 inches (40-50mm) | 1.5-4 inches (40-100mm) | 1-4 inches (25-100mm) | Disk Sizes |
| 10-300 psig (0.7-20.7barg) | 10-101 psig (0.7-7barg) | 5-70 psig (0.3-4.8barg) | 5-70 psig (0.3-4.8barg) | Burst Pressures |
| *Standard (not aluminum) and special | *Standard (not aluminum) and special | *Standard (not aluminum) and special | *Standard (not aluminum) and special | Material |
|  |  |  |  | Loading (Direction of Flow) |
| Gas or liquid | Gas or liquid | Gas or liquid | Gas or liquid | Service Phase |
| 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5%, 0% | Manufacturing Design Range |
| Best | Best | Best | Best | Cycle Life (Resistance to Fatigue) |
| 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) | 90% ASME (95% PED) | Max Operating Ratio |
| No | No | No | No | Vacuum Support Required |
| Yes | Yes | Yes | Yes | Designed for Non-Fragmentation |
| Yes | Yes | Yes | Yes | Safety Relief Valve Isolation |
| GR-C™ | NA-Connect® | GR-C | SR-C™ | Safety Head |

* Standard materials: aluminum, nickel (alloy 200), Inconel® (alloy 600), Monel® (alloy 400), 316L ss, Hastelloy® (alloy C-276) Special materials: tantalum, titanium, Hastelloy® (alloy C-22), Inconel® (alloy 625)
Gasket material options for the GCR and SLP series includes silicone, Viton®, EPDM and Polysteel

Rupture Disk Quick

Forward Acting Tension Loaded Disks

- DTM - composite disk consisting of a slotted metal top section and a metal or fluoropolymer seal for low burst pressure
- BTM - prebulged, solid metal rupture disk; system pressure is applied to the dished or concave side, subjecting disk metal to tension loading
- AVTM - flat rupture disk for atmospheric vessels and isolating outlet port of relief valves; ready gasketed with fiber gaskets; direct installation between companion flanges
- XN-85TM - precision scored, high performance specially manufactured by forming the disk first and then scoring
- XTTM - advanced rupture disk performance with an 'X' shaped score pattern; Designed for non-fragmentation; Excellent for relief valve isolation
- XBTM - non-fragmenting rupture disk opens along pre-weakened score lines offers a broader range of burst pressures than the XN
- LCNTM - low pressure rupture disk with flat composite metal design that withstands full vacuum

| | D TM | B TM | AV TM |
|---------------------------------------|---|--|---|
| |  |  |  |
| Disk Sizes | 2-30 inches (25-750mm) | 1/8-24 inches (3-600mm) | 2-36 inches (50-900mm) |
| Burst Pressures | 20-1,000 psig (1.4-69barg) | 2-100,000 psig (0.1-6,900barg) | 1-25 psig (0.69-2barg) |
| Material | *Standard | *Standard | *Standard, except aluminum |
| Loading (Direction of Flow) |  |  |  |
| Service Phase | Gas or liquid | Gas or liquid | Gas or liquid |
| Manufacturing Design Range | Full, 1/2, 1/4, 0% | Full, 1/2, 1/4, 0% | 10%, 5%, 0% |
| Cycle Life (Resistance to Fatigue) | Good | Good | Good |
| Max Operating Ratio | 80% ASME (85% PED) | 70% ASME (75% PED) | 60% ASME (65% PED) |
| Vacuum Support Required | Yes | Yes | Yes |
| Designed for Non-Fragmentation | Yes Minimally fragmenting with metal seal | No | Yes Minimally fragmenting with metal seal |
| Safety Relief Valve Isolation | Not recommended | Not recommended | Yes (@ outlet) |
| Safety Head | FA-7R TM Quick-Sert | FA-7R Quick-Sert | - |

* Standard materials: aluminum, nickel (alloy 200), Inconel® (alloy 600), Monel® (alloy 400), 316L ss, Hastelloy® (alloy C-276) Special materials: tantalum, titanium, Hastelloy® (alloy C-22), Inconel® (alloy 625)

** Some seal material may be released. Fiber gaskets attach on both sides of the AV disk; Standard gaskets are Klingersil®. As an option fluoropolymer gaskets may be supplied, preferably glass-filled.



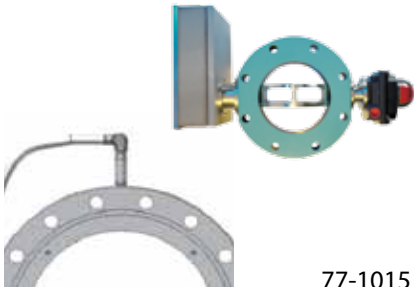
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| XN85™ | XT™ | XB™ (Scored B or SCD B) | LCN™ | |
|---|---|--|---|---------------------------------------|
|  |  |  |  | |
| 1-24 inches (25-600mm) | 1-10 inches (25-225mm) | 1-24 inches (25-600mm) | 1-24 inches (25-600mm) | Disk Sizes |
| 30-1,800 psig (2.1-124.1 barg) | 40-1,450 psig (5.5-100 barg) | 60-6,000 psig (4.1-414 barg) | 3-188 psig (0.2-13 barg) | Burst Pressures |
| *Standard and special | *Standard and special | *Standard and special | *Standard (not aluminum) and special | Material |
|  |  |  |  | Loading (Direction of Flow) |
| Gas or liquid with gas pocket** | Gas or liquid | Gas or liquid | Gas or liquid | Service Phase |
| 10%, 5%, 0% | 10%, 5%, 0% | 10%, 5% | 10%, 5%, 0% | Manufacturing Design Range |
| Better | Better | Better | Better | Cycle Life (Resistance to Fatigue) |
| 85% ASME (90% PED) | 85% ASME (90% PED) | 85% ASME (90% PED) | 80% ASME (85% PED) | Max Operating Ratio |
| No | No | No | No | Vacuum Support Required |
| Yes | Yes | Yes | **Yes | Designed for Non-Fragmentation |
| Yes | Yes | Yes | Not recommended | Safety Relief Valve Isolation |
| NF-7RS™, NX-7R™, NXV-7R™ and NF-7R™ | NF-7RS, NX-7R, NXV-7R, NF-7R and TL-7R™ | NF-7RS and NX-7R | NF-7RS, NX-7R, NXV-7R and NF-7R | Safety Head |

* Standard materials: aluminum, nickel alloy 200, Inconel® alloy 600, Monel® alloy 400, 316L ss, Hastelloy® alloy C-276, tantalum, titanium, Hastelloy® alloy C-22, Inconel® alloy 625


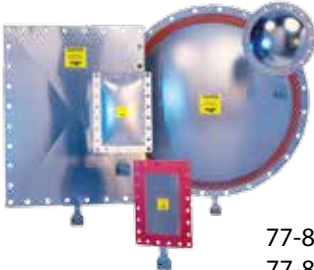
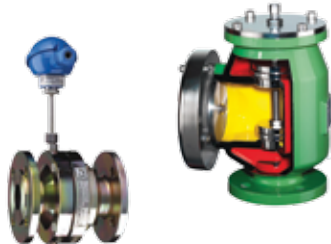
** Consult BS&B

Other Pressure

| Saf-T-Graf® Monobloc and replaceable element Graphite Disks | Custom Engineered Products | Specialty Valves |
|--|--|---|
|  <p style="text-align: right;">77-8550</p> |  <p style="text-align: right;">77-7005</p> |  <p style="text-align: right;">77-1015</p> |
| <p>Convenient, Economic, Corrosion Resistant Graphite disks are made from impregnated graphite offering low burst pressure and excellent corrosion resistance. BS&B graphite disks are supplied with integral gaskets for direct installation between international pipe flanges. The replaceable element range is installed in graphite or stainless steel safety heads before installation between pipe flanges.</p> | <p>Combining Custom with Economy</p> <ul style="list-style-type: none"> • A wide range of standard and custom-designed rupture disk assemblies are available for your specific application • Assemblies are designed to be discarded after disk rupture; other designs permit the replacement of the ruptured disk • Customized designs are available for customer applications which cannot be met using standard assembly designs | <p>Buckling Pin Pressure Relief Technology</p> <ul style="list-style-type: none"> • Fast acting, quick opening buckling pin activation pressure relief devices designed to protect personnel, equipment and the environment from danger of overpressure • Ability to 'field-reset' while remaining installed after an over pressure event |
| <ul style="list-style-type: none"> • 0.5-24 inches (15-600mm) • Burst pressures 0.25-1,000 psig (0.02-69 barg) • Temperatures to 400°F (205°C) - higher operating temperatures to 800°F (427°C) are achieved using a 'high temperature assembly' | <ul style="list-style-type: none"> • 1/8-6 inches (3-150mm) • Burst pressures from 1-100,000 psig (0.07-6,900 barg) • Disk assemblies include soldered, welded, crimped and threaded designs | <p>BPRV™ - offers the highest flow capacity and convenient inline installation</p> <ul style="list-style-type: none"> • 2-60 inches (50-1,500mm) • ASME "UD" stamped • European Pressure Equipment Directive "CE" marked |
| <p>A steel Amoring ring around the disk for added safety and easier installation is recommended.</p> | | <p>BPAV™ - controlled by a precision buckling pin that is calibrated to respond to the forces generated by inlet pressure acting on the valve plug</p> <p>US patents 5984269, 6098495, 6367498, 6488044, 6491055 and patent pending</p> |

Standard material for graphite disk gaskets is Klinger-Sil® C-4401; other material options include PTFE solid, neoprene, Garlock® 3000, Grafoil® and Gylon® 3510. Klinger-Sil® is a registered trademark of Thermosteel Inc. Garlock® 3000 and Gylon® 3510 are trademarks of Garlock Inc. Grafoil® is a trademark of GrafTech International Holdings Inc.

Relief Solutions

| Industrial Explosion Protection | Vent-Saf® and Vent-Saf® Plus | BS&B FlameSaf™ |
|--|---|---|
|  <p style="text-align: right;">77-8024</p> |  <p style="text-align: right;">77-8003 77-8015</p> |  |
| <p>Type IPD system - explosion suppression and isolation systems detect the earliest stage of a deflagration by sensing the pressure wave that comes ahead of the flameball and uses the signal to activate delivery of an extinguishing agent</p> <p>A typical system consists of the following:</p> <ul style="list-style-type: none"> • Sensor • Power supply module • System monitor • Several explosion suppression 'cannons' | <p>Explosion Panels</p> <ul style="list-style-type: none"> • Designed to protect equipment against damage in the event of deflagration of combustible materials • Explosion panels are low burst pressure membranes which are designed to be fastened over an opening of calculated size to provide rapid pressure relief • BS&B utilizes NFPA 68, EN 14491, and VDI-3673 venting guidelines, which are recognized worldwide | <p>BS&B FlameSaf Products</p> <ul style="list-style-type: none"> • In-line flame arresters • End-of-line flame arresters • End-of-line breather vents • In-line breather vents • Arrester certified to EN / ISO 16852:2010 |
| <p>BS&B is the fastest growing manufacturer of industrial explosion protection technology with products designed to meet the requirements of the United States OSHA Combustible Dust National Emphasis program, NFPA standards and European ATEX Directive.</p> | <p>BS&B offers a complete line of explosion vents including types VSP™, VSS™, VSE™, VSB™, EXP™, EXP-DV™, LCV™ and HTV™. Most applications are served by the type VSP domed vent.</p> | <p>Flame arresters are used as secondary protection against explosions by preventing the transmission of flame and explosion transfer in machines, equipment and plant, containing inflammable gas or steam-air mixtures of inflammable liquids. These autonomous safety systems limit the effects of the explosions, rendering them harmless, they are intended to allow flow but prevent flame transmission.</p> <p>The BS&B FlameSaf product line includes arrester technology suited to safe management of deflagration and detonation risks in piping systems and equipment. End-of-line and in-line devices are available along with P/V vents that offer integral arresters.</p> |
| <p>US patents 5934381, 6269746 and patent pending</p> | <p>US patent 6792964</p> | |

Hastelloy® is a trademark of Haynes International Inc.
 Monel® and Inconel® are trademarks of Inco Alloys International, Inc
 Viton® is a registered trademark of DuPont Dow Elastomers L.L.C.

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