



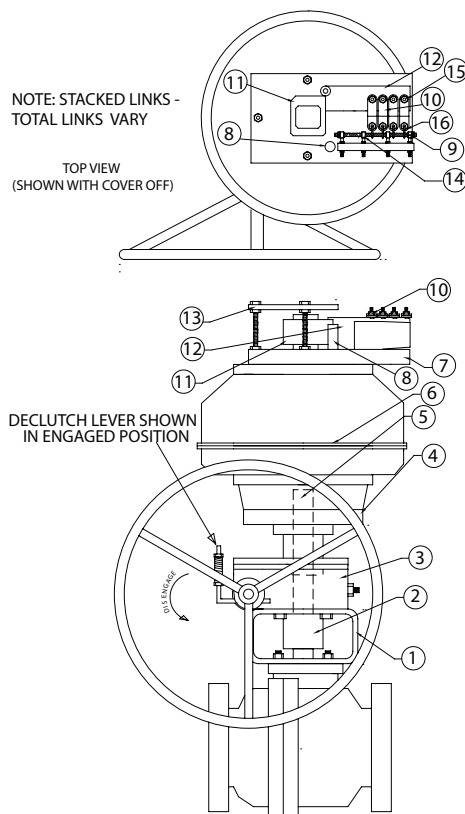
BT SERIES FOR VALVES UP TO 21,000 INCH POUNDS OF TORQUE

BT SERIES FEATURES

- FOR FIRE SAFE BALL, PLUG VALVES, AND BUTTERFLY VALVE SIZES DEPENDING ON VALVE TORQUE, MEDIA AND LINE PRESSURE
- PROVIDES AUTOMATIC CLOSURE IN THE EVENT OF FIRE
- VALVE CAN BE OPERATED MANUALLY WITH DECLUTCHABLE GEAR AFTER DISARMING
- SOLDERED FUSIBLE LINKS AVAILABLE IN A VARIETY OF TEMPERATURES
- API 607 FIRE SAFE BALL OR BUTTERFLY VALVES AVAILABLE AS PART OF A PACKAGE



The BT series assembly uses a declutchable gear to manually operate the valve after disarming.



1	valve mounting bracket	9	fusible link retaining rod
2	valve coupler	10	fusible links (8)
3	declutchable override gear	11	spring pack stop assembly
4	spring pack mounting plate	12	locking trigger
5	spring pack/declutch coupler	13	safety cover plate
6	spring pack (14x, 14, 15, 16, 18)	14	rod end bearings
7	arming device mounting plate	15	shoulder bolts
8	safety stop pin	16	SupaLoops

HEAVY DUTY SPRING PACK

The armed spring pack features weatherproof sealed spring housing and corrosion resistant epoxy paint. The reliable low stress clock springs assure quick closing action when the fusible links yield.

CUSTOMIZED MOUNTING HARDWARE

A heavy-duty gauge bracket and top plate provide the durable, secure construction that AVK Carbo-Bond products are known for. An all stainless bracket, coupling, arming plate and hardware kit also are available.

FACTORY ASSEMBLED

All BI-TORQ thermal shutdown fire safe assemblies are assembled by factory-trained personnel. The units then are armed with a protective safety link for shipping purposes.

DECLUTCHABLE MANUAL OVERRIDE

The BT-series features a declutchable gear operator to arm the assembly or to operate the valve once the links are disengaged.

RELIABLE FUSIBLE LINKS

BI-TORQ fusible links are designed to remain secure until releasing the spring pack when the desired temperature is reached. Soldered type fusible links are available in these temperature ranges:

LINK PART NUMBER	LINK YIELD TEMPERATURE	MAXIMUM AMBIENT TEMPERATURE
314165	165°F/74°C	135°F/57°C
314212	212°F/100°C	185°F/82°C
314280	286°F/138°C	253°F/123°C
314360	360°F/182°C	330°F/166°C

Please consult factory for special order links

OPTIONS FOR FUSIBLE LINK ASSEMBLIES

FUSIBLE LINK TYPES



FL-1: For LT, MT and HT-109 models

- Factory Mutual approved; UL and C-UL Listed
- Fusible Link Halves: Stainless Steel
- Fusible Assembly: Solder, Copper, Stainless Steel

NOTE: Model FL-1 Fusible Links are not rated for use in corrosive atmospheres.

LINK PART NUMBER	LINK YIELD TEMPERATURE	MAXIMUM AMBIENT TEMPERATURE
FL-1-165	165°F/74°C	135°F/57°C
FL-1-212	212°F/100°C	185°F/82°C
FL-1-286	286°F/138°C	253°F/123°C
FL-1-360	360°F/182°C	330°F/166°C



K: HT-129 through BT-189 models

- UL listed
- Minimum Load: 3 lbs. (1.36 kg.)
- Maximum Load : 50 lbs. (22.68 kg.)
- Corrosion resistant bronze construction

LINK PART NUMBER	LINK YIELD TEMPERATURE	MAXIMUM AMBIENT TEMPERATURE
314165	165°F/74°C	135°F/57°C
314212	212°F/100°C	185°F/82°C
314280	286°F/138°C	253°F/123°C
314360	360°F/182°C	330°F/166°C

BI-TORQ Valve Automation and our soldered fusible link manufacturers suggest the annual replacement of fusible links as part of scheduled plant maintenance.

CONTINUOUS POSITION INDICATION

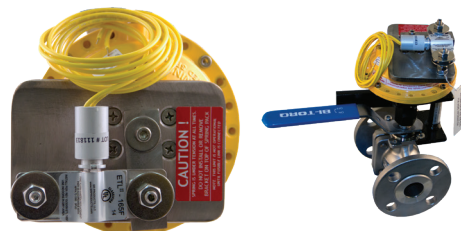
This one-of-a-kind design incorporates one or two proximity switches as an integral part of the assembly, allowing a remote operator to continuously record the position of the valve. This is especially crucial in fire safe applications where valves need to be monitored as part of a process system. Special enclosures allow the switches to maintain position signal even in high temperatures.

(NOTE: Not available on all units.)



AUTOMATIC FIRING LINK

Our newest innovation allows an operator to manually trigger the armed fusible link when a voltage signal generates the heat necessary to cause the link to yield. This lets plant personnel shut down flammable liquid lines immediately even if a fire has started in another area. Please contact our technical sales personnel for more application information. (NOTE: Not available on all units.)



ANYTHING'S POSSIBLE ... JUST ASK!

TEL: 630-208-9343

WWW.BITORQ.COM

1N050 LINLAR DRIVE

LA Fox, IL 60147



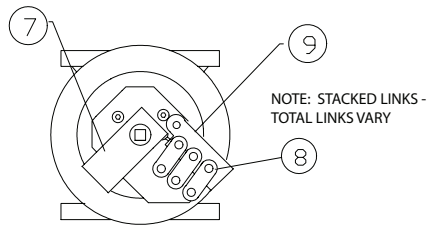
HT SERIES FOR VALVES UP TO 1800 INCH POUNDS OF TORQUE

HT SERIES FEATURES

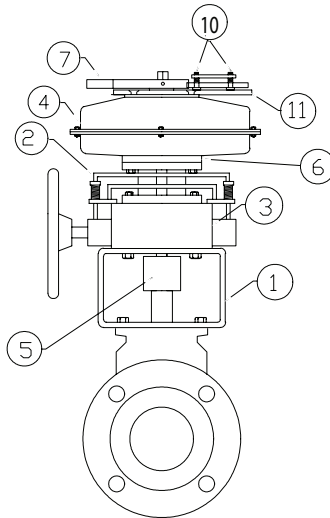
- FOR FIRE SAFE BALL, PLUG VALVES, AND BUTTERFLY VALVE SIZES DEPENDING ON VALVE TORQUE, MEDIA AND LINE PRESSURE
- PROVIDES AUTOMATIC CLOSURE IN THE EVENT OF FIRE
- VALVE CAN BE OPERATED MANUALLY WITH DECLUTCHABLE GEAR AFTER DISARMING
- SOLDERED FUSIBLE LINKS AVAILABLE IN A VARIETY OF TEMPERATURES
- API 607 FIRE SAFE BALL OR BUTTERFLY VALVES AVAILABLE AS PART OF A PACKAGE
- FM APPROVED ACTUATOR



The HT (high-torque) fusible link assembly incorporates a declutchable gear operator to normally operate the valve after disarming.



TOP VIEW ARMED



1	valve mounting bracket	7	stop plate
2	declutch lever	8	fusible link (6)
3	declutch manual override	9	pivot arm
4	spring pack (10, 12)	10	mounting studs
5	valve coupler	11	fusible link mounting plate
6	declutch mounting plate		

NOTE: Links should be replaced on an annual basis as part of a regular maintenance program. Links are not rated for use in corrosive atmospheres.

HEAVY DUTY SPRING PACK

The armed spring pack features weatherproof sealed spring housing and corrosion resistant epoxy paint. The reliable low stress clock springs assure quick closing action when the fusible links yield.

CUSTOMIZED MOUNTING HARDWARE

A heavy-duty gauge bracket and stainless steel top plate provide the durable, secure construction that BI-TORQ® Valve Automation products are known for. An all stainless bracket, coupling, arming plate and hardware kit also are available.

FACTORY ASSEMBLED

All BI-TORQ® Valve Automation fusible link assemblies are assembled by factory-trained personnel. The units then are armed with a protective safety link for shipping purposes.

DECLUTCHABLE MANUAL OVERRIDE

The HT-series features a declutchable gear operator to arm the assembly or to operate the valve once the links are disengaged.

RELIABLE FUSIBLE LINKS

BI-TORQ Valve Automation fusible links are designed to remain secure until releasing the spring pack when the desired temperature is reached. Soldered fusible links are available in these temperature ranges:

LINK PART NUMBER	LINK YIELD TEMPERATURE	MAXIMUM AMBIENT TEMPERATURE
FL-1-165	165° F/74° C	135° F/57° C
FL-1-212	212° F/100° C	185° F/82° C
FL-1-286	286° F/138° C	253° F/123° C
FL-1-360	360° F/182° C	330° F/166° C

Please consult factory for special order links

NOTE: MODEL HT-129 REQUIRES K SERIES LINKS; PLEASE REFER TO THOSE PART NUMBERS FOR TEMPERATURES AND RATINGS.

OPTIONS FOR FUSIBLE LINK ASSEMBLIES

FUSIBLE LINK TYPES



FL-1: For LT, MT and HT-109 models

- Factory Mutual approved; UL and C-UL Listed
- Fusible Link Halves: Stainless Steel
- Fusible Assembly: Solder, Copper, Stainless Steel

NOTE: Model FL-1 Fusible Links are not rated for use in corrosive atmospheres.

LINK PART NUMBER	LINK YIELD TEMPERATURE	MAXIMUM AMBIENT TEMPERATURE
FL-1-165	165°F/74°C	135°F/57°C
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K: HT-129 through BT-189 models

- UL listed
- Minimum Load: 3 lbs. (1.36 kg.)
- Maximum Load : 50 lbs. (22.68 kg.)
- Corrosion resistant bronze construction

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BI-TORQ Valve Automation and our soldered fusible link manufacturers suggest the annual replacement of fusible links as part of scheduled plant maintenance.

CONTINUOUS POSITION INDICATION

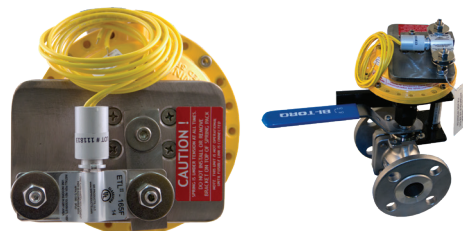
This one-of-a-kind design incorporates one or two proximity switches as an integral part of the assembly, allowing a remote operator to continuously record the position of the valve. This is especially crucial in fire safe applications where valves need to be monitored as part of a process system. Special enclosures allow the switches to maintain position signal even in high temperatures.

(NOTE: Not available on all units.)



AUTOMATIC FIRING LINK

Our newest innovation allows an operator to manually trigger the armed fusible link when a voltage signal generates the heat necessary to cause the link to yield. This lets plant personnel shut down flammable liquid lines immediately even if a fire has started in another area. Please contact our technical sales personnel for more application information. (NOTE: Not available on all units.)



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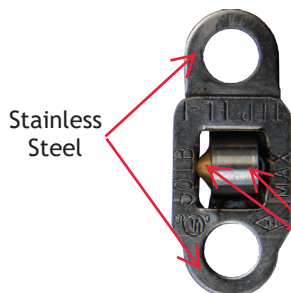
TEL: 630-208-9343

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**1N050 LINLAR DRIVE
LA FOX, IL 60147**

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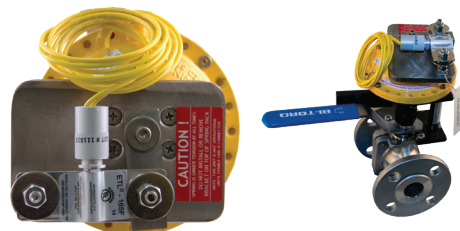
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