

BREAKAWAY CONNECTORS

00560 series

These products are designed to protect polyethylene ducting from overload during installation by Directional Drilling and are used between the Pullback Swivel and the Duct Puller.

The Connectors are a three part product, held together by a group of pins. The pins are designed to break in tension at a specific load. The assembly of the connector is completed by using one or more of the breakaway pins. The sum of the values of the pins is the value at which the connector will come apart. If a single 1,000 lb. pin is used, the connector will come apart at 1,000 lbs. If 3 pins of the same value were used, the connector would come apart at 3,000 lbs. Different pin values can be mixed and matched to create a number of different values, all in the same connector. See opposite page.

The Connectors are available in two sizes. The smaller unit covers values from 750 lbs. up to 12,500 lbs. and the larger unit covers values from 6,000 lbs. up to 45,000 lbs.

Determine which Connector is required, then refer to the tables opposite to determine which pin sizes are required.

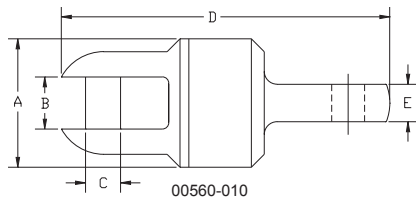


00560-020

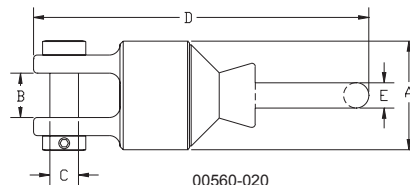


00560-010

US Patent # 5,599,129
Canadian Patent # 2,153,743



00560-010



00560-020

Connector Part No.	A	B	C	D	E	Weight
00560-010	2-1/2"	1"	11/16"	6-1/2"	3/4"	3.8 lb.
00560-020	3-3/4"	1-1/2"	1"	12"	7/8"	14.5 lb.

Contact customer service for Clevis Pin replacement.

Breakaway Pins for 00560-010 Connector		
Part No.	Break Value	Color Code
00565-075	750 lb.	Yellow
00565-100	1,000 lb.	Orange
00565-150	1,500 lb.	Red
00565-200	2,000 lb.	Blue
00565-250	2,500 lb.	Green

Breakaway Pins for 00560-020 Connector		
Part No.	Break Value	Color Code
00565-300	3,000 lb.	Yellow
00565-600	6,000 lb.	Orange
00565-700	7,000 lb.	Red
00565-800	8,000 lb.	Blue
00565-900	9,000 lb.	Green

Breakaway Pins are supplied in bags containing 5 pieces.

Breakaway values are guaranteed to +/- 5%. Every package of pins has a traceability number marked so the individual testing and proofing of each batch can be reconstructed if necessary. Test certificates are available upon request.

These products are typically used by contractors installing gas ducting. It is critical to protect the duct from overload during installation and many gas utilities in North America now specify this product to be used. In order to ensure the final integrity of the ducting, the Breakaway Connector should be set between 40% and 50% of the ultimate strength of the ducting.

The versatility of this product is its main feature. It can easily be reset from one value to another allowing the same tool to be used for installation of many different duct sizes each requiring different load settings.

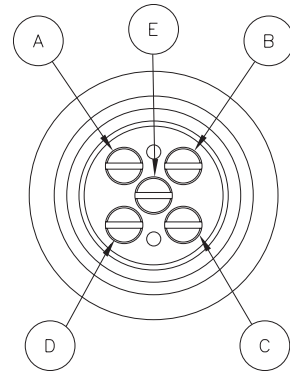
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SWIVELS & CONNECTORS

DCD

SUGGESTED SET-UP VALUES

In the following tables are suggested ways of arriving at required load values. There are usually several options other than those shown below. The five pin locations are designated as A, B, C, D & E. All numbers are expressed in pounds.



00560-010 Connector

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	lb.
-	-	-	-	750	750
-	-	-	-	1,000	1,000
-	-	-	-	1,500	1,500
1,000	-	750	-	-	1,750*
-	-	-	-	2,000	2,000
750	-	750	-	750	2,250
750	-	750	-	1,000	2,500
1,000	-	1,000	-	750	2,750
750	750	750	750	-	3,000
750	750	750	1,000	-	3,250
750	1,000	750	1,000	-	3,500
1,500	-	1,500	-	750	3,750
1,000	1,000	1,000	1,000	-	4,000
1,000	750	1,000	750	750	4,250
1,500	-	1,500	-	1,500	4,500
2,000	-	2,000	-	750	4,750
-	2,500	-	2,500	-	5,000
1,500	750	1,500	750	750	5,250
2,000	-	2,000	-	1,500	5,500
1,000	1,500	1,000	1,500	750	5,750
1,500	1,500	1,500	1,500	-	6,000
2,000	750	2,000	750	750	6,250
1,500	750	1,500	750	2,000	6,500
1,500	1,500	1,500	1,500	750	6,750
1,500	2,000	1,500	2,000	-	7,000
2,000	1,000	2,000	1,500	750	7,250*
-	2,500	-	2,500	2,500	7,500
2,000	1,500	2,000	1,500	750	7,750
2,000	2,000	2,000	2,000	-	8,000
2,000	1,500	2,000	1,500	1,500	8,500
1,500	2,000	1,500	2,000	2,000	9,000
2,000	2,000	2,000	2,000	1,500	9,500
2,500	2,500	2,500	2,500	-	10,000
2,500	2,000	2,500	2,000	1,500	10,500
2,500	2,500	2,500	2,500	1,000	11,000
2,500	2,500	2,500	2,500	1,500	11,500
2,500	2,500	2,500	2,500	2,000	12,000
2,500	2,500	2,500	2,500	2,500	12,500

00560-020 Connector

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	lb.
-	-	-	-	6,000	6,000
-	-	-	-	7,000	7,000
-	-	-	-	8,000	8,000
-	-	-	-	9,000	9,000
6,000	-	6,000	-	-	12,000
3,000	-	3,000	-	7,000	13,000
7,000	-	7,000	-	-	14,000
3,000	-	3,000	-	9,000	15,000
8,000	-	8,000	-	-	16,000
7,000	-	7,000	-	3,000	17,000
9,000	-	9,000	-	-	18,000
8,000	-	8,000	-	3,000	19,000
7,000	-	7,000	-	6,000	20,000
7,000	-	7,000	-	7,000	21,000
7,000	-	7,000	-	8,000	22,000
7,000	-	7,000	-	9,000	23,000
8,000	-	8,000	-	8,000	24,000
8,000	-	8,000	-	9,000	25,000
9,000	-	9,000	-	8,000	26,000
9,000	-	9,000	-	9,000	27,000
7,000	7,000	7,000	7,000	-	28,000
3,000	7,000	3,000	7,000	9,000	29,000
6,000	6,000	6,000	6,000	6,000	30,000
6,000	6,000	6,000	6,000	7,000	31,000
6,000	6,000	6,000	6,000	8,000	32,000
6,000	6,000	6,000	6,000	9,000	33,000
7,000	7,000	7,000	7,000	6,000	34,000
7,000	7,000	7,000	7,000	7,000	35,000
7,000	7,000	7,000	7,000	8,000	36,000
7,000	7,000	7,000	7,000	9,000	37,000
8,000	7,000	8,000	7,000	8,000	38,000
8,000	7,000	8,000	7,000	9,000	39,000
8,000	8,000	8,000	8,000	8,000	40,000
8,000	8,000	8,000	8,000	9,000	41,000
9,000	9,000	9,000	9,000	6,000	42,000
9,000	9,000	9,000	9,000	7,000	43,000
9,000	9,000	9,000	9,000	8,000	44,000
9,000	9,000	9,000	9,000	9,000	45,000

*Note: Uneven pin distribution may result in up to 10% higher breaking point.

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