

TQ SERIES PRETORQUEABLE RUPTURE DISC HOLDERS

DESCRIPTION

Fike offers two types of pretorqueable holders, the “TQ+” and “TQ”. The purpose of the TQ+ and TQ holder designs are to allow rupture discs to be installed and then “torqued” to recommended static load levels ensuring proper clamping of the rupture disc within the assembly. This can take place at a workbench rather than in the field where conditions could be less than ideal, greatly reducing the possibility of assembly errors.

Once together, the rupture disc assembly may then be delivered to the field location and installed between companion flanges where additional torque loads applied are essential for proper functionality of the assembly. TQ+ and TQ assemblies may also be removed, inspected and replaced during routine maintenance schedules and plant turnarounds without compromising disc performance as long as the disc is not removed.

TQ+ RUPTURE DISC HOLDERS

The TQ+ type holders were designed with the ability to be installed in multiple international flange rating configurations. The TQ+ can be specified for the following rupture disc models: Axis, SRL, SRX and Poly-SD.

DISC/HOLDER MODEL COMPATIBILITY

Disc Model	Holder Model			
	SRX	SRL/SRLO	XL/XLO	Poly-SD
SRX	✓			
SRL		✓	✓ *	
Axis		✓ **	✓	
Poly-SD				✓

* 1.5 IN (DN40) SRL disc not compatible with 1.50 IN (DN40) XL/XLO Holder.

** 1.5 IN (DN40) Axis disc not compatible with 1.50 IN (DN40) SRL/SRLO Holder.

FEATURES OF TQ+ RUPTURE DISC HOLDERS

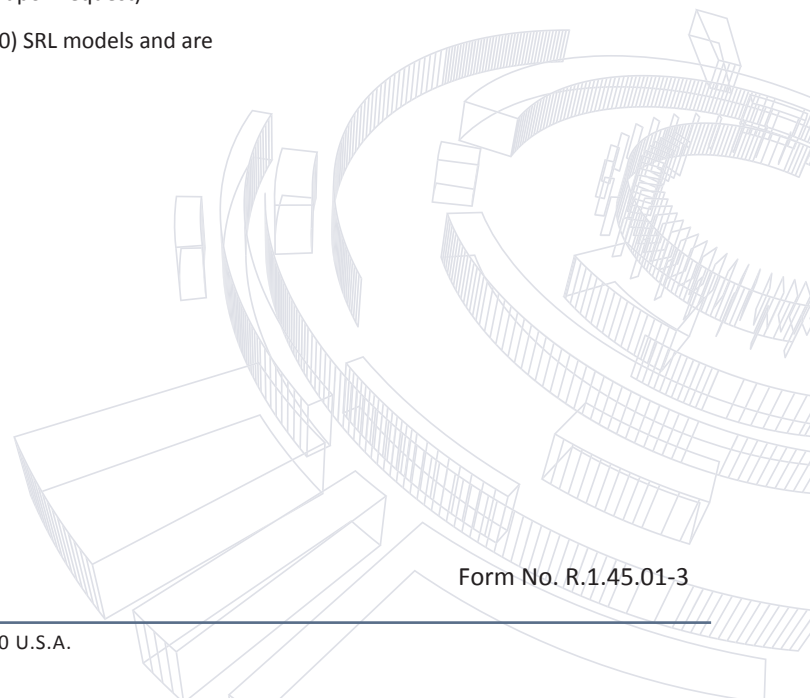
- Suitable for ANSI, JIS, DIN, and ISO ratings. Ratings may vary by size DiscLoc™ locator helps prevent inverted disc installation. Available on XL, SRL, and SRX models
- Serrated gasket faces per ANSI B16.5 for improved gasket sealing
- Standard stocked size range from 1 to 6 IN (DN25 – DN150)
- Standard 316 SST material of construction. (Other materials available upon request)
- Standard overall height dimensions
- High profile or “tall” holddowns are available for XL and 1.50 IN (DN40) SRL models and are recommended when installed directly under relief valves



TQ+ Holder



TQ Holder



Form No. R.1.45.01-3

TQ+ SERIES PRETORQUEABLE HOLDERS FOR AXIUS, SRL, SRX AND POLY-SD

Size (mm)	Assembly Height				Flange Rating	Max NPT Size Low Profile	Max NPT Size High Profile
	XL	XLO	SRX	Poly-SD			
1 (DN25)	2.38 (60.5)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	ANSI 150-600, ISO PN10-PN100, DIN PN10-PN40, JIS 10K-20K	None	1/4"
1.5 (DN40)	2.88 (73.2)	1.69 (42.9)	1.69 (42.9)	1.69 (42.9)	ANSI 150-600, ISO PN10-PN100, DIN PN10-PN40, JIS 10K-20K	1/4"	1/4"
2 (DN50)	3.00 (76.2)	1.88 (47.8)	1.88 (47.8)	1.88 (47.8)	ANSI 150-600, ISO PN10-PN100, DIN PN10-PN64, JIS 10K-40K	1/4"	1/4"
3 (DN80)	3.75 (95.3)	2.14 (54.1)	2.14 (54.1)	2.14 (54.1)	ANSI 150-600, ISO PN10-PN100, DIN PN10-PN40, JIS 10K-20K	1/4"	1/4"
4 (DN100)	4.56 (115.8)	2.88 (73.1)	2.88 (73.1)	2.88 (73.1)	ANSI 150, ISO PN20-PN40, DIN PN25-PN64, JIS 16K-30K	1/4"	1/4"
4 (DN100)	4.56 (115.8)	2.88 (73.1)	2.88 (73.1)	2.88 (73.1)	ANSI 300-600, ISO PN50-PN100, JIS 40K-63K	1/4"	1/4"
6 (DN150)	6.00 (152.4)	3.69 (93.7)	3.69 (93.7)	3.69 (93.7)	ANSI 150, ISO PN16-PN40, DIN PN16-PN40, JIS 10K	1/2"	1/2"
6 (DN150)	6.00 (152.4)	3.69 (93.7)	3.69 (93.7)	3.69 (93.7)	ANSI 300, ISO PN50, JIS 30K	1/2"	1/2"

Notes:

- 1.5 IN SRLO assembly height 1.69 IN (42.9mm); Max NPT 1/4 IN
- 1.5 IN SRL assembly height 2.88 IN (73.2mm); Max NPT 1/4 IN

TQ RUPTURE DISC HOLDERS

TQ type holders are manufactured to the specified flange rating and diameters corresponding to nominal pipe sizes. TQ holder standard materials of construction are carbon steel and 316 SST. Other materials and custom holder heights are available upon request. TQ holders can be specified for the following rupture disc models: Axius, SRL, SRX and Poly-SD.

DISC/HOLDER MODEL COMPATIBILITY

Disc Model	Holder Model			
	SRX	SRL/SRLO	XL/XLO	Poly-SD
SRX	✓			
SRL		✓	✓ *	
Axius		✓ **	✓	
Poly-SD				✓

* 1.50 IN (DN40) SRL disc not compatible with 1.50 IN (DN40) XL/XLO Holder.

** 1.50 IN (DN40) Axius disc not compatible with 1.50 IN (DN40) SRL/SRLO Holder.

FEATURES OF TQ RUPTURE DISC HOLDERS

- Standard sizes ranging from 1 to 12 inch (DN25-DN300)
- DiscLoc™ locator helps prevent inverted disc installation. Available on XL, SRL, and SRX models
- Serrated gasket faces per ANSI B16.5 for improved gasket sealing
- Optional O-Ring disc seal for reduced emissions on XL, SRL, and SRX models
- Standard 316 SST and Carbon Steel materials of construction. (Other materials available upon request)

TQ SERIES PRETORQUEABLE HOLDERS FOR AXIUS, SRL, SRX AND POLY-SD

Size (IN)	Assembly Height		Max. NPT Size (ANSI 150)	Assembly Height (ANSI 150/300)	Max. NPT Size (ANSI 150/300)	Assembly Height (ANSI 150)	Assembly Height (ANSI 300)	Max. NPT Size (ANSI 150/300)
	XL	XLO		SRX		Poly-SD	Poly-SD	
1 (DN25)	2.63 (66.8)	2.25 (57.2)	1/2"	2.13 (54.1)	1/2"	1.50 (38.1)	1.50 (38.1)	1/4"
1.5 (DN40)	3.13 (79.5)	2.13 (54.1)	1/2"	2.25 (57.2)	1/4"	1.63 (41.4)	1.63 (41.4)	1/4"
2 (DN50)	3.44 (87.4)	2.63 (66.8)	1/4"	2.69 (68.3)	1/2"	1.75 (44.5)	1.75 (44.5)	1/4"
3 (DN80)	4.16 (105.7)	2.56 (65.0)	1/2"	2.63 (66.8)	1/2"	2.13 (54.1)	2.13 (54.1)	1/2"
4 (DN100)	4.75 (120.7)	2.75 (69.9)	1/2"	2.88 (73.2)	1/2"	2.88 (73.2)	2.88 (73.2)	1/2"
6 (DN150)	6.00 (152.4)	2.81 (71.4)	1/2"	2.94 (74.7)	1/2"	3.38 (85.9)	3.69 (93.7)	1/2"
8 (DN200)	7.56 (192.0)	3.06 (77.7)	1/2"	3.22 (81.8)	1/2"	3.50 (88.9)	3.75 (95.3)	1/2"
10 (DN250)	9.59 (243.6)	4.03 (102.4)	1/2"	3.94 (100.1)	1/2"	3.94 (100.1)	3.94 (100.1)	1/2"
12 (DN300)	11.53 (292.9)	4.91 (124.7)	1/2"	4.56 (115.8)	1/2"	3.94 (100.1)	5.19 (131.8)	1/2"

Notes:

- 1.5 IN SRLO assembly height 2.13 IN (54.1mm); Max NPT 1/2"
- 1.5 IN SRL assembly height 2.63 IN (66.8mm); Max NPT 1/2"
- For an ANSI 150 rated 2 IN SRX holder, maximum available NPT size is 1/4"

For holder configurations other than the pretorqueable style (for example, insert, full-bolting, welded, or threaded versions) please consult factory.