

## PROINERT®2 MOUNTING HARDWARE

### Description

Prolnert cylinders must be adequately mounted and supported. Fike offers multiple racking options for cylinder installation. Cylinders may be mounted in single-row, double-row or triple-row configurations.

The racking consists of a Unistrut® front support and rear support, clamp rods and hardware necessary for assembly of the racking. Each rack assembly provides the necessary parts to secure the cylinders at two levels. The rack system components are shipped loose and must be assembled in the field.

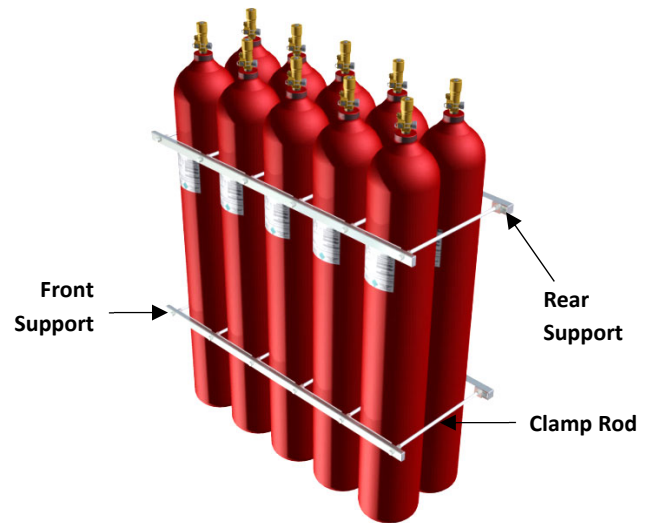
The cylinder racking rear support on all mounting configurations must be secured either to an appropriate load-bearing structure or to a cylinder racking upright purchased separately. The installer must provide the hardware necessary to secure the rear support to the mounting structure or racking upright.

### Single-Row Cylinder Mounting Configuration

Single-row cylinder mounting kits are available for configurations of 1 to 5 cylinders.

### Double-Row Cylinder Mounting Configuration

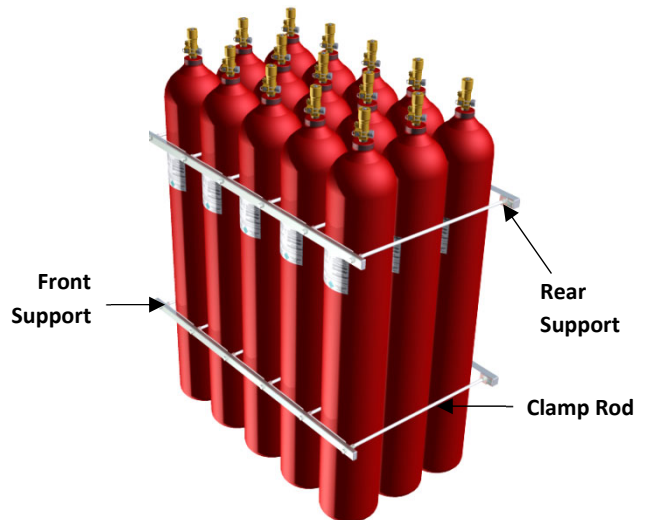
Double-row cylinder mounting may be used when it is necessary to have up to 10 cylinders in a single storage rack.



**Typical Double Row Rack Assembly  
(Assembly IG71-082-005 Shown)**

### Triple-Row Cylinder Mounting Configuration

Triple-row cylinder mounting may be used when it is necessary to have up to 15 cylinders in a single storage rack.

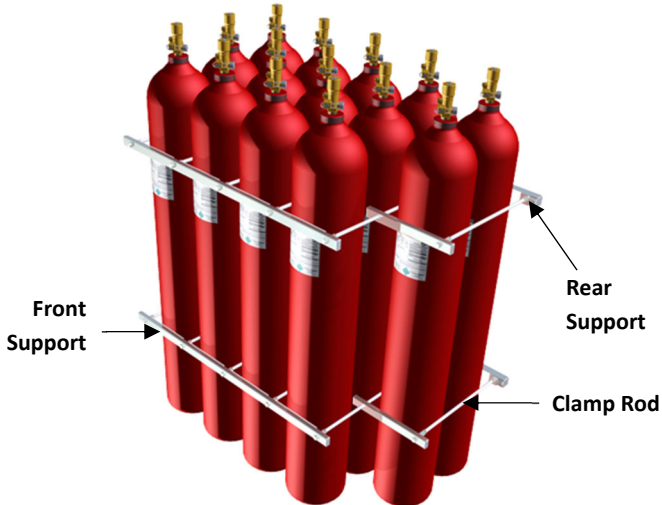


**Typical Triple Row Rack Assembly  
(Assembly IG71-083-004 Shown)**

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## Unbalanced Cylinder Mounting Configurations

There will be times when the system will require a number of cylinders that does not match any of the standard racking configurations. Because of this, Fike makes available additional racking options for cylinder storage.



**Typical Unbalanced Rack Assembly  
(Assembly IG71-085-003 Shown)**

## Cylinder Racking Options

By utilizing various rack assemblies independently or in combination, the installer may install cylinder banks consisting of up to 15 ProInert cylinders. The following table shows the available racking options.

Rack Assembly Part Number	Cylinder Arrangement (Cylinder Qty. per Row)			Total Cylinder Count
	Back Row	Middle Row	Front Row	
IG71-081-001	1	-	-	1
IG71-081-002	2	-	-	2
IG71-081-003	3	-	-	3
IG71-081-004	4	-	-	4
IG71-081-005	5	-	-	5
IG71-082-001	1	1	-	2
IG71-082-002	2	2	-	4
IG71-082-003	3	3	-	6
IG71-082-004	4	4	-	8
IG71-082-005	5	5	-	10
IG71-083-001	2	2	2	6
IG71-083-002	3	3	3	9
IG71-083-003	4	4	4	12
IG71-083-004	5	5	5	15
IG71-084-001	4	3	-	7
IG71-084-002	5	4	-	9
IG71-085-001	4	4	3	11
IG71-085-002	5	5	3	13
IG71-085-003	5	5	4	14

The part numbering of the racking will provide the necessary information to assist the designer when ordering racking. The following describes how to read the racking part number sequence.

**IG71-XXX-XXX**

**A BCD**

**A** = 016 for 80L cylinders

**B** = number of triple row cylinders in the rack

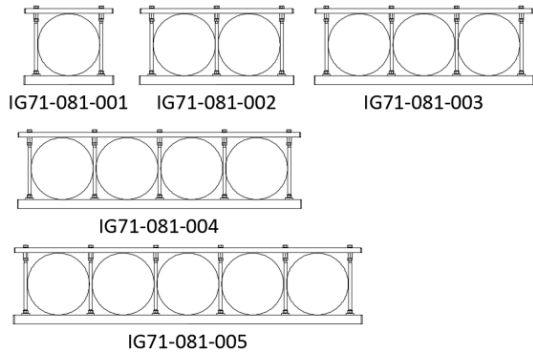
**C** = number of double row cylinders in the rack

**D** = number of single row cylinders in the rack

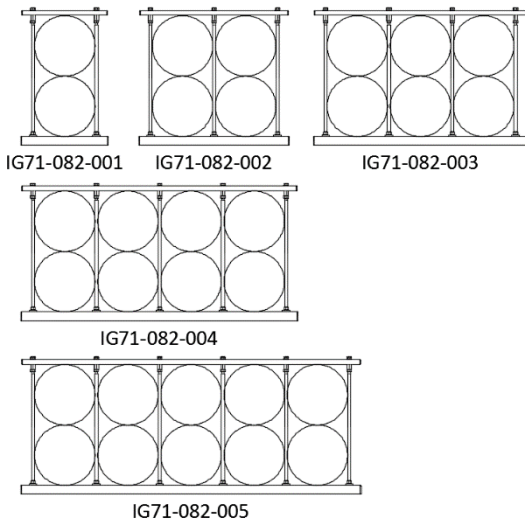
The diagrams on the next page show the cylinder foot-print for the various racking assemblies.

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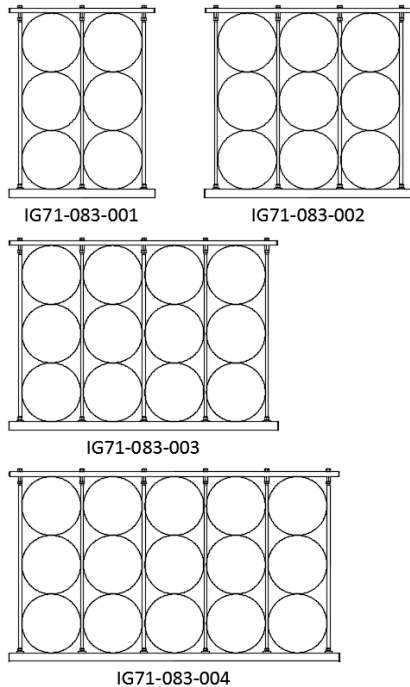
### Single Row Cylinder Foot-Print



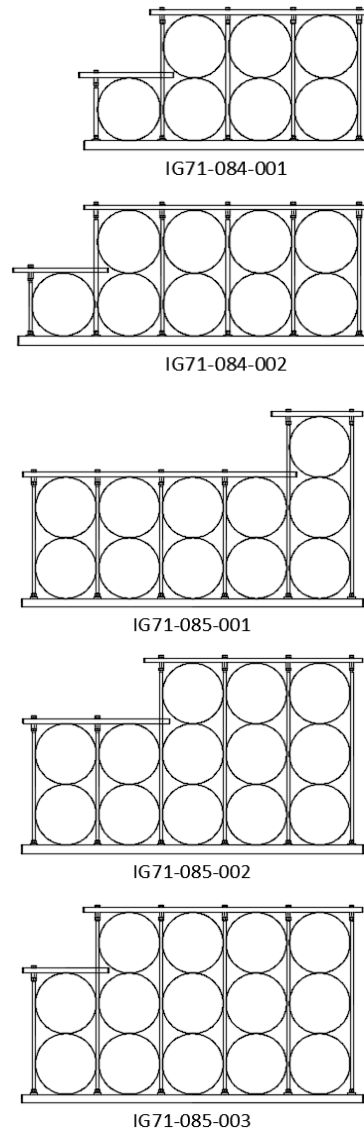
### Double Row Cylinder Foot-Print



### Triple Row Cylinder Foot-Print



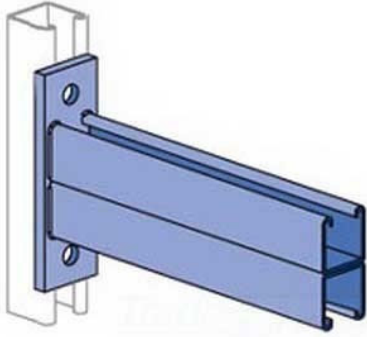
### Unbalanced Row Cylinder Foot-Print



### Manifold Brackets

Fike offers Unistrut® manifold brackets to support the manifold piping. The brackets must be secured to an appropriate load bearing structure or racking upright. Manifold brackets are available for the following cylinder rack configurations.

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**Typical Manifold Bracket**

### Single Row – Manifold Bracket

Two manifold brackets (P/N 02-11883) are used to support manifold piping for 1 to 5 cylinders in a single-row cylinder configuration. The length of the bracket is 12" (0.3 m) long. This provides the space required to mount a single manifold pipe run. Maximum load: 502 lbs. (228 kg.) per bracket

### Double Row – Manifold Bracket

Two manifold brackets (P/N 02-11884) are used to support manifold piping for 2 to 10 cylinders in a double-row cylinder configuration. The length of the bracket is 18" (0.46 m) long. This provides the space required to mount two manifold pipe runs (1 for each row of cylinders). Maximum load: 692 lbs. (314 kg.) per bracket

### Triple Row – Manifold Bracket

Two manifold brackets (P/N 02-11885) are used to support manifold piping for 3 to 15 cylinders in a triple-row cylinder configuration. The length of the bracket is 30" (0.76 m) long. This provides the space required to mount three manifold pipe runs (1 for each row of cylinders). Maximum load: 1072 lbs. (486 kg.) per bracket

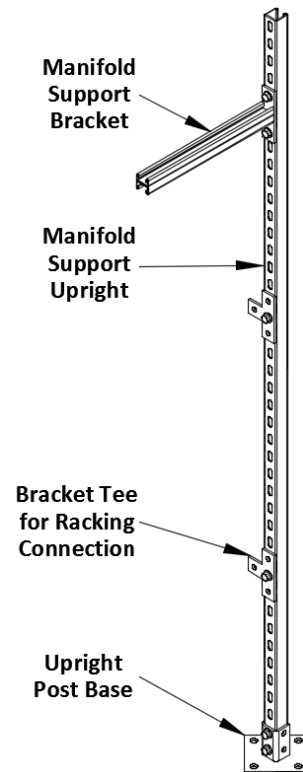
**NOTE:** If installing the bracket directly to a wall, the installer must provide the hardware necessary to secure the manifold brackets. The installer must also provide the hardware necessary to secure the manifold piping to the bracket.

## Cylinder Racking Upright Kit

The cylinder racking upright kit is comprised of Unistrut® components and provides a means to install the ProInert cylinders in a free standing configuration versus wall mounting. The kit includes a post base that allows the upright to be secured to the floor with suitable anchors (provided by others). Each upright provides a means to mount the cylinder racking components that are used to restrain the cylinders and provides a Unistrut® bracket to support and secure the manifold piping. The Upright Kit components must be assembled in the field.

Upright kits are ordered in a Single-Row, Double-Row, and Triple-Row configuration.

Part Number	Description
IG71-065-1	Single Row Upright Kit
IG71-065-2	Double Row Upright Kit
IG71-065-3	Triple Row Upright Kit



**Typical Cylinder Racking Upright**

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