

Third Party Connections (IGT & UIP)

PE Branch Saddles

1. Introduction

This briefing note has been produced to advise the Utility Infrastructure Providers of PE Branch Saddles (PEBS) that have been approved for use and installation on Cadent Gas Networks. EB/494 has been updated into a Cadent Management Procedure, however these tables are being provided to the UIP community to assist with the design and procurement of third party connections.

All products are rated to 2bar(g) unless stated otherwise.

Manufacturer specific assembly procedures shall be followed, and Manufacturer specific tooling and equipment shall be utilised.

Manufacturer Key:

- (FR) Frialen Safety Fittings
- (FU) Fusion Group Limited
- (GF) Georg Fisher Piping Systems
- (RS) Radius Subterra **previously Radius Systems Limited*

Table Key:

- (E) Equal Diameter outlet branch saddle
- (SDR17) Equal to both SDR17 & SDR17.6 determinations
- (7bar) PE100 - SDR11 Saddles rated up to an including 7bar applications

2. Guidance

Imperial PE Branch Saddles for the specified range of material grades & SDR

Dimension	PE80 SDR11	PE80 SDR17	PE80 SDR21	Comments
4" x 90mm*	RS			<i>Under Development</i>
4" x 4"	RS			<i>Requires 4" x 125mm EF reducer</i>
6" x 90mm*		RS		<i>Under Development</i>
6" x 4"		RS		<i>Requires 4" x 125mm EF reducer</i>
8" x 90mm*			RS	<i>Under Development</i>
8" x 6"			RS	<i>Requires 6" by 180mm EF reducer</i>

**Under development - contact Cadent for current approval status*

Designer PE Branch Saddles for the Specified range of material grades & SDR

Dimension	PE80 / PE100 SDR21	PE80 / PE100 SDR26
200mm x DN150*		RS
213mm x DN150*		
225mm x DN150*		
268mm x DN150		RS
280mm x DN150		
315mm x DN150	RS	
315mm x DN250		
469mm x DN150		
469mm x DN250		

**Under development - contact Cadent for current approval status*

Metric Spigot Outlet PE Branch Saddles for the specified range of material grades and SDR

Dimensions	PE80 SDR17	PE100 SDR11 (7bar)	PE100 SDR17	PE100 SDR21	PE100 SDR26
90mm x 90mm (E)	FU, RS	FU, RS	FU		
125mm x 90mm	FU, GF, RS	FU, RS	FU, GF		
140mm x 90mm	GF		GF		
180mm x 90mm	FU, GF	FU, RS	FU, GF		
180mm x 125mm	FU, GF, RS	FU, RS	FU, GF		
200mm x 90mm	GF		GF		
200mm x 125mm	GF		GF		
225mm x 90mm	GF		GF		
225mm x 125mm	GF		GF		
250mm x 90mm	FU, GF	FU, RS	FU, GF	FU	
250mm x 125mm	FU, GF	FU	FU, GF	FU	
280mm x 90mm	GF		GF	GF	GF
280mm x 125mm	GF		GF	GF	GF
315mm x 90mm	GF	RS	GF	GF	GF
315mm x 125mm	FU, GF	FU	FU, GF	FU, GF	FU, GF
315mm x 180mm	FU	FU	FU	FU	FU
355mm x 90mm	GF	RS	GF	GF	GF
355mm x 125mm	FU, GF	FU	FU, GF	FU, GF	FU, GF
355mm x 180mm	FU	FU	FU	FU	FU
400mm x 90mm	GF	RS	GF	GF	GF
400mm x 125mm	FU, GF	FU	FU, GF	FU, GF	FU, GF
400mm x 180mm	FU	FU	FU	FU	FU
450mm x 90mm	GF		GF	GF	GF
450mm x 125mm	GF		GF	GF	GF
500-630mm x 90mm	GF		GF	GF	GF
500-630mm x 125mm	GF		GF	GF	GF
630mm x 125mm	FU		FU	FU	FU
630mm x 180mm	FU		FU	FU	FU
800mm x 90mm	GF		GF	GF	GF
800mm x 125mm	GF		GF	GF	GF

Metric Flange Outlet PE Branch Saddles for the specified range of material grades and SDR

Dimensions	PE80 SDR17	PE100 SDR11 (7bar)	PE100 SDR17	PE100 SDR21	PE100 SDR26
125mm x DN80	FU, GF, RS		FU, GF		
125mm x DN100 (E)	GF, RS		GF		
180mm x DN80	FU, GF, RS		FU, GF		
180mm x DN100	FU, GF, RS		FU, GF		
180mm x DN150 (E)	RS	RS	RS		
200mm x DN100	GF		GF		
225mm x DN100	GF		GF		
250mm x DN100	FU, GF, RS		FU, GF	FU, RS	RS
250mm x DN150	FU, RS	RS	FU, RS	FU, RS	RS
250mm x DN200	FU		FU	FU	
250mm x DN250 (E)	RS	RS		RS	RS
280mm x DN100	GF	RS	GF, RS	GF	GF
280mm x DN150		RS	RS	RS	RS
280mm x DN200	FU		FU	FU	
280mm x DN250		RS	RS	RS	RS
315mm x DN100	FR, GF, RS	FR, RS	FR, GF, RS	FR, GF, RS	FR, RS
315mm x DN150	FR, FU, GF, RS	FR, FU, RS	FR, FU, GF, RS	FR, FU, GF, RS	FR, FU, GF, RS
315mm x DN250	FR, FU, RS	FR, RS	FR, FU, RS	FR, FU, RS	FR, FU, RS
355mm x DN100	GF, RS	RS	GF, RS	GF, RS	GF, RS
355mm x DN150	FR, FU, GF, RS	FR, FU, RS	FR, FU, GF, RS	FR, FU, GF, RS	FR, FU, GF, RS
355mm x DN250	FR, FU, RS	FR, FU, RS	FR, FU, RS	FR, FU, RS	FR, FU, RS
355mm x DN300		RS	RS	RS	RS
400mm x DN100	FR, GF, RS	FR, RS	FR, GF, RS	FR, GF, RS	FR, GF, RS
400mm x DN150	FR, FU, GF, RS	FR, RS	FR, FU, GF, RS	FR, FU, GF, RS	FR, FU, GF, RS
400mm x DN250	FR, FU	FR, RS	FR, FU, RS	FR, FU, RS	FR, FU
400mm x DN300	GF, RS	RS	GF, RS	GF, RS	GF, RS
450mm x DN100	FR, RS	FR, RS	FR, RS	FR, RS	FR, FS
450mm x DN150	FR, FU	FR, RS	FR, FU, RS	FR, FU, RS	FR, FU, RS
450mm x DN250	FR, FU, RS	FR, RS	FR, FU, RS	FR, FU, RS	FR, FU, RS
450mm x DN300		RS	RS		
500mm x DN100	FR, RS	FR, RS	FR, RS	FR, RS	FR, FS
500mm x DN150	FR, GF, FU	FR, RS	FR, FU, GF, RS	FR, FU, GF, RS	FR, FU, GF, RS
500mm x DN200	FR	FR	FR	FR	FR
500mm x DN250	FU, RS	RS	FU, RS	FU, RS	FU, RS
500mm x DN300	GF	RS	GF, RS	GF	GF
560mm x DN100	FR	FR	FR	FR	FR
560mm x DN150	FR	FR, RS	FR, GF, RS	FR, GF, RS	FR, GF, RS
560mm x DN200	FR, GF	FR	FR, GF	FR, GF	FR, GF
560mm x DN250		RS	RS	RS	RS
560mm x DN300	GF	RS	GF, RS	GF	GF
630mm x DN100	RS	RS	RS	RS	RS
630mm x DN150	FR, FU, GF	FR, RS	FR, FU, GF, RS	FR, FU, GF, RS	FR, FU, GF, RS
630mm x DN200	FR	FR	FR, GF	FR, GF	FR, GF
630mm x DN250		RS	RS	RS	RS
630mm x DN300	GF	RS	GF, RS	GF	GF
800mm x DN100	FR		FR	FR	FR
800mm x DN150	FR	RS	FR, GF, RS	FR, GF	FR, GF
800mm x DN200	FR	RS	FR, GF, RS	FR, GF	FR, GF
800mm x DN300		RS	GF, RS	GF	GF