

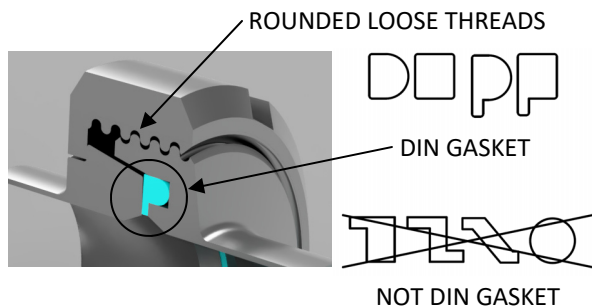
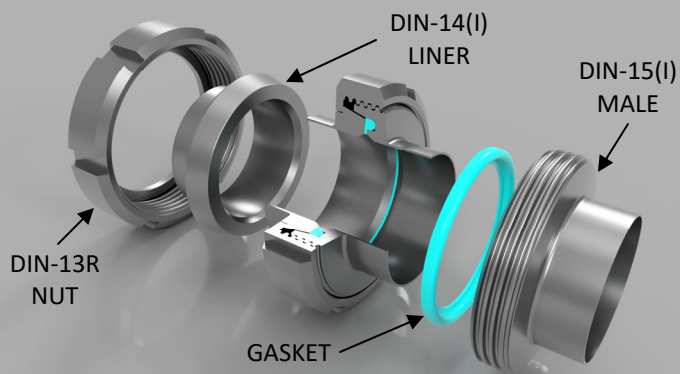


DIN Fittings - Basic Guide

General guide to the DIN 11851 fittings we carry, and how to identify them

The DIN Standard and DIN 11851 Sanitary Unions -

DIN short for 'Deutsches Institut für Normung' or 'German Institute of Standardization', is a set of standards that cover a wide array of items from sanitary tubing and fittings, all the way to paper sizes and snow skis. Our sanitary unions specifically called DIN 11851 Sanitary Unions, are generally called "DIN fittings" in the brewing industry. Because this is also a metric standard, matching sizing to inches can be an issue. The sizes we chose to carry match closely to inch tubing, and these size choices generally match others in the industry. This guide will go over how to identify and then size DIN fittings, so you can order the right parts for the job.



2 Key features to look for: Thread type and Gasket style -

There are many different types of threaded sanitary unions; such as SMS, Bevel Seat, RJT, IDF, to name a few. To narrow your search there are 2 main things to look at before trying to choose a size. The shape of the threads, and the style of the gasket.

First the threads: DIN 11851 fittings use large rounded loose fittings threads. Other thread types in unions will be square (ACME), triangular, and fine pitched tight fitting threads.

Second is the gasket style: DIN 11851 gaskets are D shaped in the profile, and can have a sanitary lip for a P shape; lower quality gaskets have the seat side square. DIN are not - Z shaped, bevel seat, o-ring, or none.

Part Descriptions and General Sizing Guide -

The table to the right describes the different types of DIN parts and what their function is in the union. The **DIN Part** title is a standard naming designation for all DIN fittings. They are named by number; 13 for Nut, 14 for Liner, 15 for Male, and 16 for Blank.

The **Basic Sizing Table** lists some of the exact sizes of features. When using a ruler you do not have to be exact, close will work. The features listed below are chosen to be the easiest to measure with a ruler, and to photograph for identification assistance.

Part Name - The parts will be labeled either with an Inch size (G100) or a DIN size (DN25), sometimes parts will be marked. The reason the DIN and Inch sizes are listed together is because we manufacture them to be compatible between these sizes. Ex: 2.0"=50mm, 2.5"=65mm, etc.

INCHES - If the union is used with inch tubing, this dimension is outside diameter of the tubing (heavy wall inch tubing will be larger).

METRIC - If the union is used with metric tubing, this dimension is the inside diameter of the tubing.

THREAD - Listed as RD 52 x 1/6; this describes a rounded thread with RD, 52 for the 52mm outside diameter, and 1/6 for 6 threads per 1"

LINER - Is the diameter of the leading or face edge of a DIN liner or blank, this is dimensioned across the surface that touches the gasket.

NUT - This is the outside diameter of a round DIN Nut (some DIN Nuts are hexagonal or flat faced to be used with a wrench)

DIN PART	NAME	Description
DIN-13R	DIN Nut	Round shaped tightening ring that holds the union together
DIN-14	Welding Liner Metric	Non threaded half of the union, Metric pipe neck
DIN-14I	Welding Liner Inch	Non threaded half of the union, Inch pipe neck
DIN-15	Welding Male Metric	Threaded half of the union with gasket seat, Metric pipe neck
DIN-15I	Welding Male Inch	Threaded half of the union with gasket seat, Inch pipe neck
DIN-16	Blank or Cap	To cap off Male fitting, fills in where a Liner would be used

DIN 11851 - BASIC SIZING TABLE

PART NAME	INCHES	METRIC	THREAD	LINER	NUT
G100-DN25	1.0"	25mm	RD 52 x 1/6	44mm	63mm
G150-DN40	1.5"	40mm	RD 65 x 1/6	56mm	78mm
G200-DN50	2.0"	50mm	RD 78 x 1/6	66mm	92mm
G250-DN65	2.5"	65mm	RD 95 x 1/6	86mm	112mm
G300-DN80	3.0"	80mm	RD 110 x 1/4	100mm	127mm
G400-DN100	4.0"	100mm	RD 130 x 1/4	121mm	148mm

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