

GOODYEAR HYDRAULIC FITTING NOMENCLATURE

EXAMPLE: B2-JCFX45-0608

XX - XXXXXX - XXXX

FITTING FAMILY

First 2 characters

B1 }
B2 } Ultra-Crimp™ 1-piece fitting
 S4 }
 S6 }

T7 } Thermoplastic 1-piece fitting
 T8 }

FG = Field-Grip™ 1-piece reattachable fitting

UC = Uni-Crimp™ Stem (2-piece fitting)

DG = Dual-Grip™ Stem (2-piece internal and external skive fitting)

PB = Push-On Brass (1-piece fitting)

SF = SAFLEX® (1-piece fitting)

GG = Grease Gun (1-piece fitting)

AC = Air Conditioning (1-piece crimp fitting)

GC = Cool Clip™ (air conditioning clip fitting)

THREAD DESCRIPTION

Next 2-7 characters

Refer to the next page for detailed information.

For AC and GC fittings see Fittings Section 9.

HOSE DASH SIZE

Next 2 characters

All hoses except R5 and Galaxy®

02 = 1/8" (3.2 mm)

03 = 3/16" (4.8 mm)

04 = 1/4" (6.4 mm)

05 = 5/16" (7.9 mm)

06 = 3/8" (9.5 mm)

08 = 1/2" (12.7 mm)

10 = 5/8" (15.9 mm)

12 = 3/4" (19 mm)

16 = 1" (25.4 mm)

20 = 1 1/4" (31.8 mm)

24 = 1 1/2" (38.1 mm)

32 = 2" (50.8 mm)

40 = 2 1/2" (63.5 mm)

SAE 100R5 and Galaxy Hose

04 = 3/16" (4.8 mm)

05 = 1/4" (6.4 mm)

06 = 5/16" (7.9 mm)

08 = 13/32" (10.3 mm)

10 = 1/2" (12.7 mm)

12 = 5/8" (15.9 mm)

14 = 3/4" (19.1 mm)

16 = 7/8" (22.2 mm)

20 = 1 1/8" (28.6 mm)

24 = 1 3/8" (35 mm)

32 = 1 13/16" (46 mm)

THREAD DASH SIZE

Last 2 characters

02 See
 03 "Thread
 04 Reference
 05 Chart"
 06 on page
08 346 for
 10 crossing
 12 over dash
 14 size to
 15 thread
 16 sizes.

18

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22

24

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42

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Warning – Selection of Fitting

Selection of the proper Goodyear fittings for the application is essential to the proper operation and safe use of the hose and related equipment. Inadequate attention to the selection of the hose fitting for the application can result in hose leakage, bursting or other failures which can cause serious bodily injury or property damage from spraying fluids or flying projectiles. Some of the factors involved in the selection of the proper hose ends are:

- Fluid Compatibility
- Pressure
- Temperature
- Installation Design
- Hose Size
- Corrosion Requirements

If there are any questions as to what fitting should be used, Goodyear recommends that you consult the Goodyear Hydraulics Application Group for assistance.

Proper Assembly of Goodyear Perma-Crimp™ Hose and Fittings

Goodyear Perma-Crimp hose, fittings and crimping equipment work together to provide an efficient and reliable hose connection. Goodyear hose and fittings are part of an engineered system and are to be assembled in accordance with Goodyear specifications. Using non-Goodyear components may produce an assembly that does not meet rated performance. **GOODYEAR DOES NOT WARRANT, EXPRESSLY OR BY IMPLICATION, HOSE ASSEMBLIES THAT DO NOT INCORPORATE GOODYEAR PERMA-CRIMP HOSE AND FITTINGS, OR ARE NOT CRIMPED IN ACCORDANCE WITH GOODYEAR'S PROCESS SPECIFICATIONS.**

Buyers may elect to attach additional or non-standard parts or equipment, or to use different manufacturing specifications, as necessary to meet the requirements of the buyer or customer's application. In such cases, the buyer has sole responsibility to qualify the hose for these applications as necessary to ensure performance capability.

For guidance in the assembly of Goodyear Perma-Crimp hose and couplings, please refer to the Goodyear Crimp Specifications Manual. Information in this catalog is believed to be accurate, but is not warranted, and is subject to change without prior notice. For the most current available product information, check Goodyear's website: www.hydraulics.goodyear.com.



One Source, One System, One Solution.

www.hydraulics.goodyear.com

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THREAD	THREAD DESCRIPTION	GENDER	SWIVEL	ELBOW
JC FX	JIC 37° Flare (SAE J514)	Female	Swivel	
JC FX45		Female	Swivel	45° Elbow
JC FX90		Female	Swivel	90° Elbow
JC FX90L		Female	Swivel	90° Elbow (Long Drop-Tube)
JC FX90S		Female	Swivel	90° Elbow (Short Drop-Tube)
JC M		Male		
SF FX	SAE 45° J512 Flare	Female	Swivel	
SF FX45		Female	Swivel	45° Elbow
SF FX90		Female	Swivel	90° Elbow
SF FX90L		Female	Swivel	90° Elbow (Long Drop-Tube)
SF M		Male		
SI F	SAE 45° Inverted Flare	Female		
SI M		Male	Swivel	
SI MX		Male	Swivel	
SI MX45		Male	Swivel	45° Elbow
SI MX90		Male	Swivel	90° Elbow
NP F	NPTF	Female	Swivel	
NP FX		Female		
NP M		Male	Swivel	
NP MX		Male	Swivel	
NP MX90B		Male		90° Elbow (Block)
NP MAPI	NPTF - Oil Field Connection	Male		
HM	Hose Mender		Swivel	
NS FX	NPSM	Female		
FT M	SAE J514 Flareless Tube Fittings	Male		
GT F	Grease Tap	Female		
SP	Standpipe			45° Elbow
SP 45				
OF FX	O-Ring Face Seal (SAE J1453 ORS/ORFS)	Female	Swivel	
OF FX45		Female	Swivel	45° Elbow
OF FX90		Female	Swivel	90° Elbow
OF FX90L		Female	Swivel	90° Elbow (Long Drop-Tube)
OF FX90S		Female	Swivel	90° Elbow (Short Drop-Tube)
OF M		Male		
OB M	O-Ring Boss Straight Thread (SAE J514)	Male		
OB MX		Male	Swivel	
OB MX90B		Male	Swivel	90° Elbow (Block)
FL	Code 61 Flange (SAE J518)			
FL 22				22.5° Elbow
FL 30				30° Elbow
FL 45				45° Elbow
FL 60				60° Elbow
FL 67				67° Elbow
FL 90			90° Elbow	
FH	Code 62 Flange (SAE J518)			
FH 22				22.5° Elbow
FH 30				30° Elbow
FH 45				45° Elbow
FH 60				60° Elbow
FH 90			90° Elbow	
CF	Caterpillar® Flange			
CF 22				22.5° Elbow
CF 30				30° Elbow
CF 45				45° Elbow
CF 60				60° Elbow
CF 90			90° Elbow	
KF	Komatsu Flange			
KF 45				45° Elbow
KF 90				90° Elbow
BP FX	BSPP (British Standard Pipe Parallel)	Female	Swivel	
BP FX45		Female	Swivel	45° Elbow
BP FX90		Female	Swivel	90° Elbow
BP M		Male		
BT M	BSP T (British Standard Pipe Tapered)	Male		
BF FX	BSP Flar Seat (British Standard Pipe)	Female	Swivel	
DL FX	DIN 24° Light	Female	Swivel	
DL FX45		Female	Swivel	45° Elbow
DL FX90		Female	Swivel	90° Elbow
DL M		Male		
DH FX	DIN 24° Heavy	Female	Swivel	
DH FX45		Female	Swivel	45° Elbow
DH FX90		Female	Swivel	90° Elbow
DH M		Male		
DN FX45	DIN 60°	Female	Swivel	45° Elbow
DN FX90		Female	Swivel	90° Elbow
KM FX	Japanese Komatsu 30° Flare with Metric Threads	Female	Swivel	
KM FX45		Female	Swivel	45° Elbow
KM FX90		Female	Swivel	90° Elbow
JS FX	JIS 30° (Parallel Pipe Threads)	Female	Swivel	



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HOSE

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ADAPTERS

EQUIPMENT & ACCESSORIES

ASSEMBLIES

INSTALLATION & MAINTENANCE

APPENDIX

GOODYEAR HYDRAULIC FERRULE NOMENCLATURE

EXAMPLE: UCF3-08

XXXX - XX

FERRULE FAMILY

First 4 characters of Part Number

UCF1	} Uni-Crimp™ Ferrules, to be used only with Uni-Crimp stems.
UCF2	
UCF3	
UCF4	
UCF5	
UCF6	
UCF7	
UCF8	
UCF9	
<hr/>	
DGF1	} Dual-Grip™ Ferrules, to be used only with Dual-Grip stems.
DGF2	

HOSE DASH SIZE

Last 2 characters of Part Number

03	= 3/16" (4.8 mm)
04	= 1/4" (6.4 mm)
05	= 5/16" (7.9 mm)
06	= 3/8" (9.5 mm)
08	= 1/2" (12.7 mm)
10	= 5/8" (15.9 mm)
12	= 3/4" (19 mm)
16	= 1" (25.4 mm)
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USING THE QUICK-FIND™ FITTING TABLES

Goodyear's Quick-Find hydraulic hose and fitting catalog makes Perma-Crimp fitting selection very easy with a 5-Step process.

Step 1 – Choose the Hose Type

The first step in choosing the correct fitting is to first select the hose type. The fitting catalog and product line is broken up into 10 sections. The 10 sections are based on hose type.

Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8	Section 9	Section 10
Hose Family	Hose Family	Hose Family	Hose Family	Hose Family	Hose Family	Hose Family	Hose Family	Hose Family	Hose Family
GR1SN	GR17	GR7	GR12	GR13	GR3	GR5	IG	Galaxy®	Ferrules
HR1SN	AR17	TR7	AR12	AR13	GR4	HR5	IGTC	G4826	
GFS		NR7		GR15	HR4		UG	G4867	
GCP3		BR7		AR15	GR6		NSFX	G4890	
GR2SN		GR8		G4SP	HR6		GGN		
HR2SN		TR8		G4SH	GR14A		GHJ		
LR2SN		NR8							
CR2SN		GR18							
GR16									
GR16SC									
AR16SC									

Step 2 – Choose the Fitting Description

Once the hose type has been identified, go to the correct section (Sections 1 to 9) and view the available fittings for that particular hose. Within the content of each section there is a table for each fitting. The Fitting Description at the top of each table describes the fitting. The Fitting Description consists of the following elements.

Fitting Description Example:



Reference Thread Descriptions under Fitting Nomenclature at the beginning of this section. The other attributes of the Fitting Description, including Gender, Elbow and Swivel/Non-swivel, will be found in the fitting table.

Step 3 – Choose Hose I.D. and Thread Size

Choose the correct fitting selected in Step 2 based on the Hose I.D. and Thread Size. In some cases, a fitting may be available in several thread sizes. As an example, a JIC 37° Flare (SAE J514) Female Swivel is available for a hose I.D. of 3/8" and thread sizes 9/16–18 and 3/4–16.

Step 4 – Determine Availability for Hose Type

With the desired fitting identified by Hose I.D. and Thread Size in Step 3, confirm the fitting is compatible for a particular Hose Type by reading to the right of the product table. A "Y" indicates the fitting is an Ultra-Crimp™, 1-piece fitting and compatible with the hose. A part number would indicate the fitting is a 2-piece fitting, either Uni-Crimp™ or Dual-Grip™, requiring a ferrule. The ferrule part number is required to make an assembly. A blank in the compatibility chart would indicate a fitting is not compatible with a particular hose.

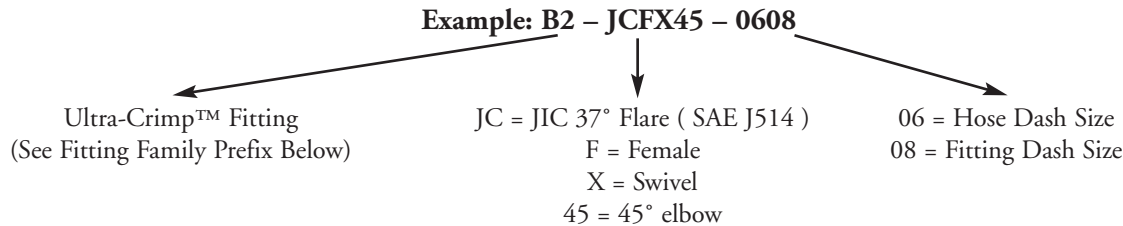
Step 5 – Note the Part Number

The fitting part number can now be noted. The part number is found on the left side of the chart. If a ferrule is required, that part number is found on the right side of the chart under hose compatibility (Step 4).

EXPLANATION OF FITTING PART NUMBER, DIMENSIONS AND ATTRIBUTES

Explanation of Part Number

The Goodyear Perma-Crimp™ fitting can be described through its functional part number.



The following prefix will be used in the fitting part number to indicate the Fitting Family.

<i>Fitting Family</i>	<i>Description</i>
Prefix	
B1	Ultra-Crimp 1-piece fitting
B2	
S4	
S6	
T7	Thermoplastic 1-piece fitting
T8	
FG	Field-Grip™ 1-piece reattachable fitting
UC	Uni-Crimp™ Stem (2-piece fitting)
DG	Dual-Grip™ Stem (2-piece internal and external skive fitting)
PB	Push-On Brass (1-piece fitting)
SF	SAFLEX® (1-piece fitting)
GG	Grease Gun (1-piece fitting)
AC	Air Conditioning (1-piece crimp fitting)
GC	Cool Clip™ (air conditioning clip fitting)

For the additional breakdown of part number attributes, see Fitting Nomenclature at the beginning of this section.

Fitting Dimensions and Attributes

Within the product tables, you'll find the fitting dimensions or attributes.

Hose I.D. – The compatible hose I.D.

Thread Size – The thread size or sizes available for a particular fitting dash size.

Hex Size – The wrench size for one or both nuts on the fitting.

Drop – The drop or “D” dimension describes the length of the elbow.

Cut-off – The “C” dimension is the amount of hose to be cut for a correct assembly length.

Length – The “L” dimension is the overall length of the fitting.

Tables will also indicate whether the fitting is a skive or non-skive type. Tables will also indicate whether the fitting is an Ultra-Crimp, indicated with a “Y” and the correct hose compatibility. In some cases, the fitting might be a Uni-Crimp, or two-piece fitting, requiring a ferrule. The ferrule will be denoted for each type of hose applicable.

The Goodyear Quick-Find™ catalog is easy to use, with 5 steps in selecting a Perma-Crimp fitting. Knowing the hose type and thread style will lead you to the desired part number.