

# Wal-Mart Stores, Inc.

Electronic Data Interchange Implementation Guideline  
ANSI X12 Version 5010 (VICS)

5  
0  
1  
0

## **850 Purchase Order**

**Business Usage:**  
Custom Contact Lens Orders

**EDI Direction:** From Wal-Mart

Implementation Guide Version 1.0  
Published November 2004  
Last Changed February 2005

## Table of Contents

850 Purchase Order - Wal-Mart Stores, Inc. Introduction.....	3
850 Purchase Order – Wal-Mart Stores, Inc. Implementation.....	<b>Error! Bookmark not defined.</b>
Wal-Mart Business Example .....	<b>Error! Bookmark not defined.</b>
850 Purchase Order – ANSI X12 Introduction.....	132
850 Purchase Order – ANSI X12 Standards .....	133
850 Purchase Order - VICS Introduction.....	139
Data Element 751 – VICS EDI Semi-Custom Product Description Code Matrix .....	140
850 Purchase Order – VICS Guidelines .....	143
Conventions used in these guidelines .....	146
Example of Conventions .....	148
Change History .....	149

# 850 Purchase Order - Wal-Mart Stores, Inc. Introduction

The 850 Optical Purchase Order is used to transmit purchase orders for made-to-order contact lenses. This document varies from other purchase orders in that it provides information specifically related to contact lenses. In addition, information that does not relate to contact lens purchase orders, but does relate to other types of orders does not appear in this guide. **As a result, this guide is to be used for made to order contact lenses only. It should not be used for any other type of purchase order.**

## **Functional Acknowledgment**

A *Functional Acknowledgment*, VICS/EDI transaction set 997 must be sent within 24 hours of receipt of originating transmission to acknowledge receipt of the 850 transmission or to notify Wal-Mart Stores, Inc. of format or syntax errors.

## **Business Changes**

### **GTIN Support**

To support our growing company, Wal-Mart Stores, Inc. will be incorporating the following business changes into this 4030 upgrade.

Support for the Global Trade Item Number (GTIN) has been added in version 5010. The GTIN will be sent in the PO1 Segment and the SLN Segment (where applicable), and will be preceded by a “UK” qualifier. All GTIN’s will be sent using the UCC-14 format (Right Justified and zero padded to 13 characters, plus 1 check digit at the end). This will ensure that the GTIN is a globally unique number. In the Purchase Order, the GTIN that will be sent will correspond to the ordering quantity unit of measure. The Item UPC Code will continue to be sent in version 5010 as well. It will continue to be sent in the UCC-13 format.

## **Pack/Inner Pack Usage:**

The PO4 Segment is used to transmit information about the packaging of the product being ordered. Two levels of packaging may be specified. PO401 (Data Element 356) is used to transmit the Pack, and PO414 (Data Element 810) is used to transmit the Inner Pack if needed. There may be two levels of packing in the PO4. The first level, specified using PO401 - Pack, may be actual items, e.g., consumer units, or may be the number of smaller containers within the case. The second level, specified using PO414, is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. PO414 will only be used when inner packs are actually present.

## **Payment Terms Based on an Effective Date**

When the payment terms specified are based on an effective date, there will be a code of “7” in the ITD03 data element. There will also be a DTM segment sent with “007” in the DTM01 element. If the Payment Terms in the ITD segment are not based on an effective date, there will be no DTM01 with “007” sent.

## Cross Dock Orders

All Wal-Mart purchase orders for made to order contact lenses are cross dock orders. In a cross dock order, merchandise is shipped to a distribution center, but the store location that the merchandise is ultimately destined for has already been predetermined and the merchandise is to be labeled with the identification number of the store location. **NOTE: Cross dock orders are not to be shipped directly to the stores.**

In order to transmit the necessary information in the purchase order, the following segments will be used:

- There will be an N1 segment with a “ST” qualifier in the N101 element to transmit the Ship To information.
- There will be an N1 segment with a “BT” qualifier in the N101 element to transmit the Bill To information.
- There will be an SDQ segment for each line item in the order, containing the identification of the ultimate store location(s).

## Service, Promotion, Allowance, or Charge Code Usage

The following table shows the Wal-Mart internal Allowance Codes vs. the corresponding X12 Codes:

Wal-Mart Code	Wal-Mart Code Description	X12 Code	X12 Code Description
AA	Advertising Allowance	A260	Advertising Allowance
CB	Central Buy	B000	Central Buy
TR	TV/Radio Media Allowance	B720	Cooperative Advertising/ Merchandising Allowance (Performance)
SD	Soft Goods Defective Allow	C000	Defective Allowance
WC	Wholesale Club Allowance	<b>C310</b>	Discount
DA	Display/Endcap Allowance	C320	Display Allowance
EB	Early Buy Allowance	C540	Early Buy Allowance
FG	Free Goods	D170	Free Goods
FA	Freight Allowance	D240	Freight
HA	Handling Allowance	D500	Handling
ND	New Distribution Center	E720	New Distribution Allowance
NW	New Distribution Center	E720	New Distribution Allowance
SA	New Store/Club Discount – Detail Level	E740	New Store Allowance
OL	New Store/Club Discount – Header Level	E750	New Store Discount
BH	Backhaul Allowance	F330	Pick-up and Delivery
PM	Price Marketing	F670	Price and Marketing Allowance
PA	Promotional Allowance	F800	Promotional Allowance
QD	Warehouse Distribution Allow – Order Type 33 Only	F910	Quantity Discount
PR	Purchase Rebate	F970	Rebate
SB	Special Buy	H010	Special Buy
TL	Truckload Allowance	I310	Truckload Discount
DM	Defective/Returned Merchandise Allowance	I410	Unsaleable Merchandise Allowance
VD	Volume Discount	I530	Volume Discount
WA	Warehouse Allowance	I570	Warehouse

# 850 Purchase Order – Wal-Mart Stores, Inc. Implementation (Optical)

Functional Group ID=**PO**

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BEG	Beginning Segment for Purchase Order	M	1		
	0400	CUR	Currency	O	1		
	0500	REF	Reference Information - Department Number	O	>1		
	0500	REF	Reference Information - Order Type	O	>1		
	0500	REF	Reference Information - Event Code	O	>1		
	0500	REF	Reference Information - Vendor Number	O	>1		
	0800	FOB	F.O.B. Related Instructions	O	>1		
						25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	1500	DTM	Date/Time Reference - Cancel After	O	10		
	1500	DTM	Date/Time Reference - Delivery Requested	O	10		
	1500	DTM	Date/Time Reference - Effective Date	O	10		
	1500	DTM	Date/Time Reference - Requested Ship	O	10		
	1500	DTM	Date/Time Reference - Ship Not Before	O	10		
	1500	DTM	Date/Time Reference - Ship No Later	O	10		
	1500	DTM	Date/Time Reference - Do Not Deliver After	O	10		
	2400	TD5	Carrier Details (Routing Sequence/Transit Time)	O	>1		
						1000	
	2950	N9	Extended Reference Information	O	1		
	3000	MTX	Text	O	>1		
						200	
	3100	N1	Party Identification - Ship To	O	1		
						200	
	3100	N1	Party Identification - Bill To	O	1		
						200	
	3100	N1	Party Identification - Supplier Identification	O	1		
						200	
	3100	N1	Party Identification - Wal-Mart Store Identification	O	1		
	3300	N3	Party Location	O	2		
	3400	N4	Geographic Location	O	>1		
	3600	PER	Administrative Communications Contact	O	>1		

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - PO1			100000	

M	0100	POI	Baseline Item Data	M	1	n1
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Base Curve	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Diameter	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Sphere	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Cylinder	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Axis Degree	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Add Power	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Color	O	1	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Trial Indicator	O	1	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Dot in Eye	O	1	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Right Eye/Left Eye	O	1	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Lens Type	O	1	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Curve 1	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Degree 1	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Curve 2	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Degree 2	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Vertex	O	1	
	0600	MEA	Measurements	O	10	
			LOOP ID - PID	1000		
	0500	PID	Product/Item Description - Optical Zone	O	1	

0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Thickness	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Truncation	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Segment Height	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Secondary Curves	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Peripheral Curves	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Lenticular Optical Zone	O	1	
0600	MEA	Measurements	O	10	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Segment Height Measured After Truncation	O	1	
LOOP ID - PID					1000
0500	PID	Product/Item Description - Prism	O	1	
0600	MEA	Measurements	O	10	
1000	REF	Reference Information	O	>1	
LOOP ID - SAC					25
1300	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
1900	SDQ	Destination Quantity	O	500	
LOOP ID - N9					1000
3300	N9	Extended Reference Information - Store Number	O	1	
LOOP ID - N9					1000
3300	N9	Extended Reference Information - Notes	O	1	
3400	MTX	Text	O	>1	
LOOP ID - AMT					>1
6000	AMT	Monetary Amount Information	O	1	

**Summary:**

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - CTT						1
0100	CTT	Transaction Totals	O	1		n2
0200	AMT	Monetary Amount Information	O	1		n3
M	0300	SE	M	1		

## Wal-Mart Business Example – Optical (Cross-Dock) Order

EDI TRANSMISSION DATA	EXPLANATION
ST*850*0001	850 is the <b>Transaction Set Identifier Code</b> for the Purchase Order Transaction Set. 0001 is the <b>Transaction Set Control Number</b> .
BEG*00*SA*2401266136**20041111	00 is the <b>Transaction Set Purpose Code</b> . The “00” indicates “Original”. SA is the <b>Purchase Order Type Code</b> . “SA” indicates “Stand-Alone Order”. 2401266136 is the <b>Purchase Order Number</b> . 20041111 is the <b>Purchase Order Date</b> .
CUR*BY*USD	BY is the <b>Entity Identifier Code</b> . “BY” indicates “Buying Party (Purchaser)”. USD is the <b>Currency Code</b> . “USD” indicates “U.S. Dollars”.
REF*DP*00049	DP is the <b>Reference Identification Qualifier</b> . “DP” indicates “Department Number”. 00049 is the <b>Reference Identification</b> .
REF*LU*305290000	LU is the <b>Reference Identification Qualifier</b> . “LU” indicates “Location Number”. 305290000 is the <b>Reference Identification</b> .
REF*MR*0073	MR is the <b>Reference Identification Qualifier</b> . “MR” indicates “Merchandise Type Code”. 0073 is the <b>Reference Identification</b> .
REF*PD*QUICK RESP	PD is the <b>Reference Identification Qualifier</b> . “PD” indicates “Promotion/Deal Number”. QUICK RESP is the <b>Description</b> .
REF*IA*027623496	IA is the <b>Reference Identification Qualifier</b> . “IA” indicates “Internal Vendor Number”. 027623496 is the <b>Reference Identification</b> and represents the Wal-Mart assigned Vendor Number.
FOB*PP*OR*LYNCHBURG VA	PP is the <b>Shipment Method of Payment</b> . “PP” indicates “Prepaid (by Seller)”. OR is the <b>Location Identifier</b> . “OR” indicates “Origin (Shipping Point)”. LYNCHBURG VA is the <b>Description</b> and represents the Name of transportation responsibility location.
ITD*08*15*2**15**30	08 is the <b>Terms Type Code</b> . “08” indicates “Basic Discount Offered”. 15 is the <b>Terms Basis Date Code</b> . “15” indicates “Receipt of Goods”. 2 is the <b>Terms Discount Percent</b> . “2” indicates a 2% discount if an invoice is paid on or before the terms discount due date. 15 is the <b>Terms Discount Days Due</b> . The discount will apply if an invoice is paid on or before the 15 <sup>th</sup> day after the Receipt of Goods. 30 is the <b>Terms Net Days</b> . The Invoice will be due 30 days after the Receipt of Goods.
DTM*001*20041118	001 is the <b>Date/Time Qualifier</b> . “001” Indicates “Cancel After”. 20041118 is the <b>Date</b> .
DTM*010*20041111	010 is the <b>Date/Time Qualifier</b> . “010” Indicates “Requested Ship”. 20041111 is the <b>Date</b> .

TD5*O***VEND	O is the <b>Routing Sequence Code</b> . "O" indicates "Origin Carrier (Air, Motor, or Ocean)". VEND is the <b>Routing</b> .
N9*L1*SPECIAL INSTRUCTIONS	L1 is the <b>Reference Identification Qualifier</b> . "L1" represents "Letters or Notes". SPECIAL INSTRUCTIONS is the <b>Reference Identification</b> . This will always contain the literal "Special Instructions".
MTX**NO PRETICKET	NO PRETICKET is the <b>Free-Form Message Text</b> .
N1*ST*WAL-MART OPTICAL DC 7054*UL*0078742039541	ST is the <b>Entity Identifier Code</b> . "ST" indicates "Ship-To". WAL-MART OPTICAL DC 7054 is the <b>Name</b> . UL is the <b>Identification Code Qualifier</b> . "UL" indicates a UCC/EAN Location (GLN). 0078742039541 is the <b>Identification Code</b> .
N1*BT*WAL-MART STORES, INC.*UL*0078742039541	BT is the <b>Entity Identifier Code</b> . "BT" indicates "Bill-To". WAL-MART STORES, INC. is the <b>Name</b> . UL is the <b>Identification Code Qualifier</b> . "UL" indicates a UCC/EAN Location (GLN). 0078742039541 is the <b>Identification Code</b> .
N1*SU*SUPPLIER NAME	SU is the <b>Entity Identifier Code</b> . "SU" indicates "Supplier/Manufacturer". SUPPLIER NAME is the <b>Name</b> .
PO1*001*1*EA*27*LE*IN*004956920*UP*78581 0686339*VN*012588*BO*VISI*IZ*14.5* UK*07858106863394	001 is the <b>Assignment Identification</b> . It contains the PO Line Number. 1 is the <b>Quantity Ordered</b> . EA is the <b>Unit or Basis for Measurement Code</b> . "EA" indicates "Eaches". 27 is the <b>Unit Price</b> . This indicates the price of 150.00. LE is the <b>Basis of Unit Price Code</b> . LE indicates "Catalog Price per Each". IN is the <b>Product/Service ID Qualifier</b> . "IN" indicates "Buyer's Item Number". 004956920 is the <b>Product/Service ID</b> . UP is the <b>Product/Service ID Qualifier</b> . "UP" indicates "U.P.C. Consumer Package Code (1-5-5-1)". 785810686339 is the <b>Product/Service ID</b> . VN is the <b>Product/Service ID Qualifier</b> . "VN" indicates "Vendor (Seller's) Item Number". 012588 is the <b>Product/Service ID</b> . BO is the <b>Product/Service ID Qualifier</b> . "BO" indicates "Color". VISI is the <b>Product/Service ID</b> . IZ is the <b>Product/Service ID Qualifier</b> . "IZ" indicates "Size". 14.5 is the <b>Product/Service ID</b> . UK is the <b>Product/Service ID Qualifier</b> . "UK" indicates "GTIN 14-digit Data Structure". 07858106863394 is the GTIN formatted in 14-digit structure.
PID*S**AB*OP03CLENBC	S is the <b>Item Description Type</b> . "S" indicates "Structured (From Industry Code List)". AB is the <b>Agency Qualifier Code</b> . "AB" indicates "Assigned by Buyer". OP03CLENBC is the <b>Product Description Code</b> . This value can be understood as follows: OP – Optical 03 – Structured Description/Measurement (04 – Free Form

	<p>Description)  <b>CLEN</b> – Contact Lens  <b>BC</b> – Measurement Abbreviation. Base Curve in this case.</p>
MEA*OD**8.8	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>8.8</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLEN DI	<p><b>S</b> is the <b>Item Description Type</b>. “S” indicates “Structured (From Industry Code List)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.  <b>OP03CLEN DI</b> is the <b>Product Description Code</b> (Diameter).</p>
MEA*OD**14.5	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>14.5</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLEN SP	<p><b>S</b> is the <b>Item Description Type</b>. “S” indicates “Structured (From Industry Code List)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.  <b>OP03CLEN SP</b> is the <b>Product Description Code</b>. (Sphere)</p>
MEA*OD*****1.25	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>1.25</b> is the <b>Range Maximum</b>. In this type of measurement, a value in <b>MEA05 (Range Minimum)</b> indicates a negative value (or zero), while a value in <b>MEA06 (Range Maximum)</b> indicates a positive value. This value was in MEA06 so it is positive.</p>
PID*S**AB*OP03CLEN CL	<p><b>S</b> is the <b>Item Description Type</b>. “S” indicates “Structured (From Industry Code List)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.  <b>OP03CLEN CL</b> is the <b>Product Description Code</b>. (Cylinder)</p>
MEA*OD****0	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>0</b> is the <b>Range Minimum</b></p>
PID*S**AB*OP03CLEN AD	<p><b>S</b> is the <b>Item Description Type</b>. “S” indicates “Structured (From Industry Code List)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.  <b>OP03CLEN AD</b> is the <b>Product Description Code</b>. (Axis Degree)</p>
MEA*OD**0	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>0</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLEN AP	<p><b>S</b> is the <b>Item Description Type</b>. “S” indicates “Structured (From Industry Code List)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.  <b>OP03CLEN AP</b> is the <b>Product Description Code</b>. (Add Power)</p>
MEA*OD**0	<p>OD is the <b>Measurement Reference ID Code</b>. “OD” indicates “Ordered Dimensions”.  <b>0</b> is the <b>Measurement Value</b>.</p>
PID*X**AB*OP04CLEN CO*VISI	<p><b>X</b> is the <b>Item Description Type</b>. “X” indicates “Semi-Structured (Code and Text)”.  <b>AB</b> is the <b>Agency Qualifier Code</b>. “AB” indicates “Assigned by Buyer”.</p>

	<p><b>OP04CLENCO</b> is the <b>Product Description Code</b> . (Add Power)</p> <p><b>VISI</b> is the <b>Description</b>.</p>
PID*S**AB*OP03CLENTI****N	<p><b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP03CLENTI</b> is the <b>Product Description Code</b> . (Trial Indicator)</p> <p><b>N</b> is the <b>Yes/No Condition or Response Code</b> . “N” indicates No.</p>
PID*X**AB*OP04CLENLT*SL MULTIFOCAL LOW	<p><b>X</b> is the <b>Item Description Type</b> . “X” indicates “Semi - Structured (Code and Text)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP04CLENLT</b> is the <b>Product Description Code</b> . (Lens Type)</p> <p><b>SL MULTIFOCAL LOW</b> is the <b>Description</b>.</p>
PID*X**AB*OP04CLENEL*R	<p><b>X</b> is the <b>Item Description Type</b> . “X” indicates “Semi - Structured (Code and Text)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP04CLENEL</b> is the <b>Product Description Code</b> . (Lens Type)</p> <p><b>R</b> is the <b>Description</b>.</p>
PID*S**AB*OP03CLENC1	<p><b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP03CLENC1</b> is the <b>Product Description Code</b> . (Curve 1)</p>
MEA*OD**0	<p><b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”.</p> <p><b>0</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLENL1	<p><b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP03CLENL1</b> is the <b>Product Description Code</b> . (Degree 1)</p>
MEA*OD**0	<p><b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”.</p> <p><b>0</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLENC2	<p><b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP03CLENC2</b> is the <b>Product Description Code</b> . (Curve 2)</p>
MEA*OD**0	<p><b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”.</p> <p><b>0</b> is the <b>Measurement Value</b>.</p>
PID*S**AB*OP03CLENL2	<p><b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”.</p> <p><b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.</p> <p><b>OP03CLENL2</b> is the <b>Product Description Code</b> . (Degree 2)</p>
MEA*OD**0	<p><b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”.</p>

	<b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENVT</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENVT</b> is the <b>Product Description Code</b> . (Vertex)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLEN0Z</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLEN0Z</b> is the <b>Product Description Code</b> . (Optical Zone)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENTK</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENTK</b> is the <b>Product Description Code</b> . (Thickness)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENTR</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENTR</b> is the <b>Product Description Code</b> . (Truncation)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENESH</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENESH</b> is the <b>Product Description Code</b> . (Segment Height)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENESC</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENESC</b> is the <b>Product Description Code</b> . (Secondary Curvea)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENPC</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”.

	<b>OP03CLENPC</b> is the <b>Product Description Code</b> . (Peripheral Curves)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENLZ</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENLZ</b> is the <b>Product Description Code</b> . (Lenticular Optical Zone)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PID*S**AB*OP03CLENST****N</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENST</b> is the <b>Product Description Code</b> . (Segment Height After Truncation) <b>N</b> is the <b>Yes/No Condition or Response Code</b> . “N” indicates No.
<b>PID*S**AB*OP03CLENPM</b>	<b>S</b> is the <b>Item Description Type</b> . “S” indicates “Structured (From Industry Code List)”. <b>AB</b> is the <b>Agency Qualifier Code</b> . “AB” indicates “Assigned by Buyer”. <b>OP03CLENPM</b> is the <b>Prism</b> . (Segment Height After Truncation)
<b>MEA*OD**0</b>	<b>OD</b> is the <b>Measurement Reference ID Code</b> . “OD” indicates “Ordered Dimensions”. <b>0</b> is the <b>Measurement Value</b> .
<b>PO4*1</b>	<b>1</b> is the <b>Pack</b> . In this example, it represents the number of packs to a case.
<b>REF*CR*001035695</b>	<b>CR</b> is the <b>Reference Identification Qualifier</b> . “CR” indicates “Customer Reference”. <b>001035695</b> is the <b>Description</b>
<b>SDQ*EA*UL*0078742000039*1</b>	<b>EA</b> is the <b>Unit of Basis for Measurement Code</b> . “EA” indicates “Each”. <b>UL</b> is the <b>Identification Code Qualifier</b> . “UL” indicates “UCC/EAN Location Code.” <b>0078742000039</b> is the <b>Identification Code</b> . <b>1</b> is the <b>Quantity</b> .
<b>AMT*1*27</b>	<b>1</b> is the <b>Amount Qualifier Code</b> . “1” Indicates “Line Item Total”. <b>27</b> is the <b>Monetary Amount</b> .
<b>CTT*1</b>	<b>1</b> is the <b>Number of Line Items</b>
<b>AMT*TT*27</b>	<b>TT</b> is the <b>Amount Qualifier Code</b> . “TT” indicates “Total Transaction Amount”. <b>27</b> is the <b>Monetary Amount</b> .
<b>SE*69*0001</b>	<b>69</b> is the <b>Number of Included Segments</b> . <b>0001</b> is the <b>Transaction Set Control Number</b> . This is the same control number as in the ST02 segment.

**Segment:** **ST** Transaction Set Header  
**Position:** 0100  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:**

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 850 Purchase Order	M 1 ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.</b>	M 1 AN 4/9
	ST03	1705	<i>Implementation Convention Reference</i> <i>Reference assigned to identify Implementation Convention</i>	O 1 AN 1/35

**Segment:** **BEG** Beginning Segment for Purchase Order  
**Position:** 0200  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

**Syntax Notes:**  
**Semantic Notes:** 1 BEG05 is the date assigned by the purchaser to purchase order.

**Comments:**  
**Notes:**

**If BEG02 contains code RL, then BEG04 is required. BEG03 contains the purchase order number which is being released against and BEG04 contains the release number.**

**Booking Purchase Order Description - original order sent to the supplier to manufacture / produce goods.**

**Allocation Purchase Order Description - Once the goods have been produced from the Booking Order then the allocation order is sent to relay distribution information.**

**If BEG02 contains BE, then the Booking Purchase Order is being sent in BEG03. If BEG02 contains RL, then the Booking Purchase Order is being sent in BEG03 and the Allocation Purchase Order is being sent in BEG04.**

#### Data Element Summary

Ref.	Data Element	Name	Attributes
M	BEG01	353 Transaction Set Purpose Code Code identifying purpose of transaction set <b><u>Normally this qualifier is used for parallel testing EDI versions.</u></b> 00 Original 22 Information Copy <b><u>This code is used to notify anyone other than the seller about this order.</u></b>	M 1 ID 2/2
M	BEG02	92 Purchase Order Type Code Code specifying the type of Purchase Order <b><u>This code will be used for the booking purchase order.</u></b> SA Stand-alone Order	M 1 ID 2/2
M	BEG03	324 Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser <b><u>Retailer's original purchase order number</u></b>	M 1 AN 1/22
	BEG04	328 Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction <b><u>Retailer's release against the purchase order, if used</u></b>	O 1 AN 1/30
M	BEG05	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year <b><u>Retailer's original purchase order date</u></b>	M 1 DT 8/8
	BEG06	367 Contract Number Contract number	O 1 AN 1/30
	BEG07	587 Acknowledgment Type Code specifying the type of acknowledgment	O 1 ID 2/2
	BEG08	1019 Invoice Type Code Code defining the method by which invoices are to be processed	O 1 ID 3/3
	BEG09	1166 Contract Type Code	O 1 ID 2/2

		<i>Code identifying a contract type</i>		
<i>BEG10</i>	<i>1232</i>	<i>Purchase Category</i>	<i>O</i>	<i>1 ID 2/2</i>
		<i>Code identifying the broad category of products or services being acquired</i>		
<i>BEG11</i>	<i>786</i>	<i>Security Level Code</i>	<i>O</i>	<i>1 ID 2/2</i>
		<i>Code indicating the level of confidentiality assigned by the sender to the information following</i>		
<i>BEG12</i>	<i>640</i>	<i>Transaction Type Code</i>	<i>O</i>	<i>1 ID 2/2</i>
		<i>Code specifying the type of transaction</i>		

**Segment:** **CUR** Currency  
**Position:** 0400  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the currency (dollars, pounds, francs, etc.) used in a transaction  
**Syntax Notes:**

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

**Semantic Notes:**  
**Comments:**

- 1 See Figures Appendix for examples detailing the use of the CUR segment.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	CUR01	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual <b>All PO's are denominated in the currency of the buying company.</b> BY Buying Party (Purchaser)	M 1 ID 2/3
M	CUR02	100 Currency Code Code (Standard ISO) for country in whose currency the charges are specified ARS Argentine Peso BRL Brazilian Real CAD Canadian Dollar CNY Chinese Yuan Renminbi EUR Euro [EAN Code] GBP Great British Pound Sterling MXN Mexican Peso USD U.S. Dollars	M 1 ID 3/3
	CUR03	280 Exchange Rate Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O 1 R 4/10
	CUR04	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O 1 ID 2/3
	CUR05	100 Currency Code Code (Standard ISO) for country in whose currency the charges are specified	O 1 ID 3/3
	CUR06	669 Currency Market/Exchange Code Code identifying the market upon which the currency exchange rate is based	O 1 ID 3/3
	CUR07	374 Date/Time Qualifier Code specifying type of date or time, or both date and time	X 1 ID 3/3
	CUR08	373 Date	O 1 DT 8/8

			<i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>		
CUR09	337	Time		O	1 TM 4/8
			<i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>		
CUR10	374	Date/Time Qualifier		X	1 ID 3/3
			<i>Code specifying type of date or time, or both date and time</i>		
CUR11	373	Date		X	1 DT 8/8
			<i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>		
CUR12	337	Time		X	1 TM 4/8
			<i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>		
CUR13	374	Date/Time Qualifier		X	1 ID 3/3
			<i>Code specifying type of date or time, or both date and time</i>		
CUR14	373	Date		X	1 DT 8/8
			<i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>		
CUR15	337	Time		X	1 TM 4/8
			<i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>		
CUR16	374	Date/Time Qualifier		X	1 ID 3/3
			<i>Code specifying type of date or time, or both date and time</i>		
CUR17	373	Date		X	1 DT 8/8
			<i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>		
CUR18	337	Time		X	1 TM 4/8
			<i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>		
CUR19	374	Date/Time Qualifier		X	1 ID 3/3
			<i>Code specifying type of date or time, or both date and time</i>		
CUR20	373	Date		X	1 DT 8/8
			<i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>		
CUR21	337	Time		X	1 TM 4/8
			<i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>		

**Segment:** **REF** Reference Information - Department Number  
**Position:** 0500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:**

**When REF01 contains code PG, REF02 is used to specify the alphanumeric description of the product group or selling zone required on the shipping label. The maximum length is 18 characters. See UCC6 Application Standard for Shipping Container Codes for specific guidance.**  
**This instance of the REF Segment will contain the Wal-Mart Department Number.**

**Data Element Summary**

M	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification DP Department Number	<b>M 1 ID 2/3</b>
			<b>This code may be used in the header area or the detail area, but not both.</b>	
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X 1 AN 1/50</b>
	<i>REF03</i>	<i>352</i>	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>REF04</i>	<i>C040</i>	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	<i>O 1</i>
	<i>C04001</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>M ID 2/3</i>
	<i>C04002</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>M AN 1/50</i>
	<i>C04003</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X ID 2/3</i>
	<i>C04004</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X AN 1/50</i>
	<i>C04005</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X ID 2/3</i>
	<i>C04006</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X AN 1/50</i>

**Segment:** **REF** Reference Information - Order Type  
**Position:** 0500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** **This instance of the REF Segment will contain the Wal-Mart Order Type code.**

**Data Element Summary**

M	Ref.	Data	Attributes	
	Des.	Element Name		
	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification MR Merchandise Type Code	M	1 ID 2/3
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1 AN 1/50
	REF03	352 Description A free-form description to clarify the related data elements and their content	X	1 AN 1/80
	REF04	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	1
	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification	M	ID 2/3
	C04002	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN 1/50
	C04003	128 Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
	C04004	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/50
	C04005	128 Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
	C04006	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/50

**Segment:** **REF** Reference Information - Event Code  
**Position:** 0500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** **This instance of the REF Segment will contain the Wal-Mart Promotion Event Code.**

**Data Element Summary**

M	Ref. Des.	Data Element	Name	Attributes	
				M	1 ID 2/3
	<b>REF01</b>	<b>128</b>	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification PD Promotion/Deal Number	<b>M</b>	<b>1 ID 2/3</b>
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X</b>	<b>1 AN 1/50</b>
	<i>REF03</i>	<i>352</i>	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X</i>	<i>1 AN 1/80</i>
	<i>REF04</i>	<i>C040</i>	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	<i>O</i>	<i>1</i>
	<i>C04001</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>M</i>	<i>ID 2/3</i>
	<i>C04002</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>M</i>	<i>AN 1/50</i>
	<i>C04003</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X</i>	<i>ID 2/3</i>
	<i>C04004</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X</i>	<i>AN 1/50</i>
	<i>C04005</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X</i>	<i>ID 2/3</i>
	<i>C04006</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X</i>	<i>AN 1/50</i>

**Segment:** **REF** Reference Information - Vendor Number  
**Position:** 0500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** **This instance of the REF Segment will contain the supplier's nine-digit Wal-Mart Vendor Number.**

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
M REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IA Internal Vendor Number <b>Identification number assigned to the vendor, by the retailer, for use within the retailer's system</b>	M 1 ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
REF03	352	Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80
REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

**Segment:** **FOB** F.O.B. Related Instructions  
**Position:** 0800  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify transportation instructions relating to shipment  
**Syntax Notes:**

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

**Semantic Notes:**

- 1 FOB01 indicates which party will pay the carrier.
- 2 FOB02 is the code specifying transportation responsibility location.
- 3 FOB06 is the code specifying the title passage location.
- 4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	<b>FOB01</b>	<b>146 Shipment Method of Payment</b> Code identifying payment terms for transportation charges CC Collect PP Prepaid (by Seller)	<b>M 1 ID 2/2</b>
	<b>FOB02</b>	<b>309 Location Qualifier</b> Code identifying type of location DE Destination (Shipping) OR Origin (Shipping Point)	<b>X 1 ID 1/2</b>
	<b>FOB03</b>	<b>352 Description</b> A free-form description to clarify the related data elements and their content <b>Free-form name of transportation responsibility location</b>	<b>O 1 AN 1/80</b>
	<i>FOB04</i>	<i>334 Transportation Terms Qualifier Code</i> Code identifying the source of the transportation terms	<i>O 1 ID 2/2</i>
	<i>FOB05</i>	<i>335 Transportation Terms Code</i> Code identifying the trade terms which apply to the shipment transportation responsibility	<i>X 1 ID 3/3</i>
	<i>FOB06</i>	<i>309 Location Qualifier</i> Code identifying type of location	<i>X 1 ID 1/2</i>
	<i>FOB07</i>	<i>352 Description</i> A free-form description to clarify the related data elements and their content	<i>O 1 AN 1/80</i>
	<i>FOB08</i>	<i>54 Risk of Loss Code</i> Code specifying where responsibility for risk of loss passes	<i>O 1 ID 2/2</i>
	<i>FOB09</i>	<i>352 Description</i> A free-form description to clarify the related data elements and their content	<i>X 1 AN 1/80</i>

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 1200  
**Loop:** SAC  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC14 is present, then SAC13 is required.
  - 7 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
  - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
  - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:** **There is one segment for each Allowance, Charge, Service, or Promotion being specified. If this segment appears in the header area of the transaction set, the data applies to the entire transaction set. If this segment appears in the detail area of the transaction set, the data applies only to that line item. The data specified in the header area is exclusive of the data specified in the detail area; it is not the sum of the data in the detail area, i.e., allowances or charges.**

#### Data Element Summary

Ref.	Data	Name		Attributes
Des.	Element			
M	SAC01	248	Allowance or Charge Indicator	M 1 ID 1/1
			Code which indicates an allowance or charge for the service specified	
			A Allowance	
			C Charge	
	SAC02	1300	Service, Promotion, Allowance, or Charge Code	X 1 ID 4/4
			Code identifying the service, promotion, allowance, or charge	
			A260 Advertising Allowance	
			B000 Central Buy	
			B010 Cents Off	
			B270 Collect Surcharge	
			B320 Competitive Allowance	
			B690 Controlled Atmosphere	

B720	Cooperative Advertising/Merchandising Allowance (Performance)
B860	Customs Broker Fee
B870	Customs Charge
B940	Cutting Charge
B950	Damaged Merchandise
C000	Defective Allowance
C300	Discount - Special
C310	Discount
C320	Display Allowance
C490	Drum Deposit
C530	Duty Charge
C540	Early Buy Allowance
C550	Early Payment Allowance
C580	Emergency Service
D170	Free Goods
D240	Freight
D430	Gross Receipts Surcharge
D500	Handling
D870	Inspection
E720	New Distribution Allowance
E740	New Store Allowance
E750	New Store Discount
E760	New Warehouse Discount
F050	Other (See related description)
F180	Pallet
F210	Parish/County Sales Tax (only)
F330	Pickup and Delivery
F580	Preparation and Delivery
F670	Price and Marketing Allowance
F800	Promotional Allowance
F910	Quantity Discount
F920	Quantity Surcharge
F970	Rebate
G220	Refrigeration
G470	Restocking Charge
H010	Special Buy
H090	Special Handling
H420	Storage in Transit
H750	Tax - Sales Tax (State and Local)
H770	Tax - State Tax
H780	Tax - Super Fund Excise Tax
H910	Temperature Protection
H920	Temporary Allowance
I000	Testing
I170	Trade Discount
I310	Truckload Discount
I390	Unloading
I410	Unsaleable Merchandise Allowance
I530	Volume Discount
I570	Warehouse

SAC03	559	Agency Qualifier Code	X	1	ID 2/2
		Code identifying the agency assigning the code values			
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	X	1	AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge			
SAC05	610	Amount	O	1	N2 1/15
		Monetary amount			
		<b>When SAC01 contains code A or code C, then this data element is required. This will resolve any differences between the sender's and receiver's system calculations of amounts, i.e., rounding errors when allowances or charges are expressed in percentages or rates.</b>			
SAC06	378	Allowance/Charge Percent Qualifier	X	1	ID 1/1
		Code indicating on what basis allowance or charge percent is calculated			
		6 Base Price Amount			
SAC07	332	Percent, Decimal Format	X	1	R 1/6
		Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%)			
		<b>The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2".</b>			
SAC08	118	Rate	O	1	R 1/9
		Rate expressed in the standard monetary denomination for the currency specified			
SAC09	355	Unit or Basis for Measurement Code	X	1	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
		CA Case			
		EA Each			
SAC10	380	Quantity	X	1	R 1/15
		Numeric value of quantity			
		<b>When SAC02 contains code D170, this data element is required and will contain the quantity of free goods. The unit of measure is in SAC09.</b>			
		<b>SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to the service, promotion, allowance, or charge.</b>			
SAC11	380	Quantity	O	1	R 1/15
		Numeric value of quantity			
SAC12	331	Allowance or Charge Method of Handling Code	O	1	ID 2/2
		Code indicating method of handling for an allowance or charge			
		01 Bill Back			
		<b>The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice. The amount will not be reflected in the invoice total amount.</b>			
		02 Off Invoice			
		<b>The allowance or charge amount will be reflected in the total transaction amount, e.g., Total Invoice Amount = Merchandise Price + Charges - Allowances.</b>			
		03 Vendor Check to Customer			
		<b>The vendor will issue a check directly to the customer of the retailer, or end consumer, for the allowance or charge amount. The amount is not reflected in the total invoice amount.</b>			
		04 Credit Customer Account			
		<b>The retailer's account will be credited for the amount of the allowance or charge. The amount is not reflected in the total invoice amount.</b>			

SAC13	127	<i>Reference Identification</i>	X	1	AN 1/50
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>			
SAC14	770	<i>Option Number</i>	O	1	AN 1/20
		<i>A unique number identifying available promotion or allowance options when more than one is offered</i>			
SAC15	352	<i>Description</i>	X	1	AN 1/80
		<i>A free-form description to clarify the related data elements and their content</i>			
SAC16	819	<i>Language Code</i>	O	1	ID 2/3
		<i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>			

**Segment:** **ITD** Terms of Sale/Deferred Terms of Sale  
**Position:** 1300  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify terms of sale  
**Syntax Notes:**

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantic Notes:**

- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

**Comments:**

- 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

**Notes:** **This segment may be used in the header area or the detail area, but not both.**

Many times, deferred terms are specified on the purchase order with only the knowledge that the terms are to be based on a date value which is not known, e.g., invoice or delivery date. What is known is the percentage or dollar amount of each deferred installment, and the number of days after the date the terms are based on, that each installment will be due. In these cases, ITD01 will contain code 04, indicating deferred or installment terms, and ITD02 will contain the appropriate terms date basis code (most typically code 2 for Delivery Date, code 3 for Invoice Date, or code 15 for Receipt of Goods Date). ITD07 will contain the number of days after the terms basis date that this installment is due. ITD10 or ITD11 will be used to indicate a dollar amount (ITD10) for that installment or the percent (ITD11) for that installment. Use one ITD segment for each installment. When specifying deferred terms and the exact terms basis date is known, e.g., invoice date, ITD09 should be used to specify the exact deferred or installment date.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
ITD01	336	Terms Type Code	O 1 ID 2/2
		Code identifying type of payment terms	
		02 End of Month (EOM)	
		05 Discount Not Applicable	
		08 Basic Discount Offered	
ITD02	333	Terms Basis Date Code	O 1 ID 1/2
		Code identifying the beginning of the terms period	
		3 Invoice Date	
		7 Effective Date	
		15 Receipt of Goods	
ITD03	338	Terms Discount Percent	O 1 R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	
		The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2".	
ITD04	370	Terms Discount Due Date	X 1 DT 8/8
		Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	
ITD05	351	Terms Discount Days Due	X 1 N0 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned	
		The end of the term period is derived by adding this value to the beginning of the term period, as qualified by ITD02.	

ITD06	446	Terms Net Due Date Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O	1	DT 8/8
ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	O	1	N0 1/3
<b>The end of the term period is derived by adding this value to the beginning of the term period, as qualified by ITD02.</b>					
ITD08	362	Terms Discount Amount Total amount of terms discount	O	1	N2 1/10
ITD09	388	Terms Deferred Due Date Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O	1	DT 8/8
ITD10	389	Deferred Amount Due Deferred amount due for payment	X	1	N2 1/10
ITD11	342	Percent of Invoice Payable Amount of invoice payable expressed in percent	X	1	R 1/5
ITD12	352	Description A free-form description to clarify the related data elements and their content	O	1	AN 1/80
ITD13	765	Day of Month The numeric value of the day of the month between 1 and the maximum day of the month being referenced	X	1	N0 1/2
ITD14	107	Payment Method Type Code Code identifying type of payment procedures	O	1	ID 1/2
ITD15	954	Percentage as Decimal Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)	O	1	R 1/10

**Segment:** **DTM** Date/Time Reference - Cancel After  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

**This segment is used to specify order processing dates.**  
**This instance of the DTM segment will cease to be used once a supplier begins to receive a "Must Arrive By Date" (MABD).**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 001 Cancel After	M 1 ID 3/3
		<b>If the order has not been shipped by this date, the order is considered canceled</b>	
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
	DTM04	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X 1 ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X 1 AN 1/35

**Segment:** **DTM** Date/Time Reference - Delivery Requested  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	M 1 ID 3/3
		<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time	
		002 Delivery Requested	
	DTM02	373	X 1 DT 8/8
		<b>Date</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
	DTM03	337	X 1 TM 4/8
		<i>Time</i> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
	DTM04	623	O 1 ID 2/2
		<i>Time Code</i> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
	DTM05	1250	X 1 ID 2/3
		<i>Date Time Period Format Qualifier</i> Code indicating the date format, time format, or date and time format	
	DTM06	1251	X 1 AN 1/35
		<i>Date Time Period</i> Expression of a date, a time, or range of dates, times or dates and times	



**Segment:** **DTM** Date/Time Reference - Requested Ship  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Notes:** **This instance of the DTM segment will cease to be used once a supplier begins to receive a "Must Arrive By Date" (MABD).**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 010 Requested Ship	M 1 ID 3/3
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
	DTM04	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X 1 ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X 1 AN 1/35

**Segment:** **DTM** Date/Time Reference - Ship Not Before  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

**This instance of a DTM segment will be sent once a supplier starts receiving "Must Arrive By Date" (MABD).**

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 037 Ship Not Before	M 1 ID 3/3
		<b>If the retailer allows shipment before the requested ship date, this is the earliest date shipping can occur</b>	
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
	DTM04	623 Time Code <i>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow</i>	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier <i>Code indicating the date format, time format, or date and time format</i>	X 1 ID 2/3
	DTM06	1251 Date Time Period <i>Expression of a date, a time, or range of dates, times or dates and times</i>	X 1 AN 1/35

**Segment:** **DTM** Date/Time Reference - Ship No Later  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

**This instance of a DTM segment will be sent once a supplier starts receiving "Must Arrive By Date" (MABD).**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 038 Ship No Later	M 1 ID 3/3
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
	DTM04	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X 1 ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X 1 AN 1/35

**Segment:** **DTM** Date/Time Reference - Do Not Deliver After  
**Position:** 1500  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

**This instance of the DTM Segment will be used to transmit the "Must Arrive By Date" (MABD).**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 063 Do Not Deliver After	M 1 ID 3/3
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
	DTM04	623 Time Code <i>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow</i>	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier <i>Code indicating the date format, time format, or date and time format</i>	X 1 ID 2/3
	DTM06	1251 Date Time Period <i>Expression of a date, a time, or range of dates, times or dates and times</i>	X 1 AN 1/35

**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)  
**Position:** 2400  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify the carrier and sequence of routing and provide transit time information  
**Syntax Notes:**

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

**Semantic Notes:**

- 1 TD515 is the country where the service is to be performed.

**Comments:**

- 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

**Notes:** **This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502, and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2, and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>		
<b>TD501</b>	<b>133</b>	<b>Routing Sequence Code</b>		<b>O</b>	<b>1</b>	<b>ID 1/2</b>
			Code describing the relationship of a carrier to a specific shipment movement			
			O Origin Carrier (Air, Motor, or Ocean)			
<i>TD502</i>	<i>66</i>	<i>Identification Code Qualifier</i>		<i>X</i>	<i>1</i>	<i>ID 1/2</i>
			Code designating the system/method of code structure used for Identification Code (67)			
<i>TD503</i>	<i>67</i>	<i>Identification Code</i>		<i>X</i>	<i>1</i>	<i>AN 2/80</i>
			Code identifying a party or other code			
<i>TD504</i>	<i>91</i>	<i>Transportation Method/Type Code</i>		<i>X</i>	<i>1</i>	<i>ID 1/2</i>
			Code specifying the method or type of transportation for the shipment			
<b>TD505</b>	<b>387</b>	<b>Routing</b>		<b>X</b>	<b>1</b>	<b>AN 1/35</b>
			Free-form description of the routing or requested routing for shipment, or the originating carrier's identity			
<i>TD506</i>	<i>368</i>	<i>Shipment/Order Status Code</i>		<i>X</i>	<i>1</i>	<i>ID 2/2</i>
			Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction			
<i>TD507</i>	<i>309</i>	<i>Location Qualifier</i>		<i>O</i>	<i>1</i>	<i>ID 1/2</i>
			Code identifying type of location			
<i>TD508</i>	<i>310</i>	<i>Location Identifier</i>		<i>X</i>	<i>1</i>	<i>AN 1/30</i>
			Code which identifies a specific location			
<i>TD509</i>	<i>731</i>	<i>Transit Direction Code</i>		<i>O</i>	<i>1</i>	<i>ID 2/2</i>
			The point of origin and point of direction			
<i>TD510</i>	<i>732</i>	<i>Transit Time Direction Qualifier</i>		<i>O</i>	<i>1</i>	<i>ID 2/2</i>
			Code specifying the value of time used to measure the transit time			

TD511	733	Transit Time <i>The numeric amount of transit time</i>	X	1	R 1/4
TD512	284	Service Level Code <i>Code indicating the level of transportation service or the billing service offered by the transportation carrier</i>	X	1	ID 2/2
TD513	284	Service Level Code <i>Code indicating the level of transportation service or the billing service offered by the transportation carrier</i>	X	1	ID 2/2
TD514	284	Service Level Code <i>Code indicating the level of transportation service or the billing service offered by the transportation carrier</i>	O	1	ID 2/2
TD515	26	Country Code <i>Code identifying the country</i>	O	1	ID 2/3

**Segment:** **N9 Extended Reference Information**

**Position:** 2950

**Loop:** N9

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
  - 2 If N906 is present, then N905 is required.
  - 3 If either C04003 or C04004 is present, then the other is required.
  - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
  - 2 N907 contains data relating to the value cited in N902.

**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification L1 Letters or Notes	M 1 ID 2/3
	N902	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <b><u>This will always contain the literal, "Special Instructions"</u></b>	X 1 AN 1/50
	N903	369	<i>Free-form Description</i> <i>Free-form descriptive text</i>	X 1 AN 1/45
	N904	373	<i>Date</i> <i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>	O 1 DT 8/8
	N905	337	<i>Time</i> <i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>	X 1 TM 4/8
	N906	623	<i>Time Code</i> <i>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow</i>	O 1 ID 2/2
	N907	C040	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	M ID 2/3
	C04002	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04004	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04006	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50

**Segment:** **MTX** Text  
**Position:** 3000  
**Loop:** N9  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify textual data  
**Syntax Notes:**

- 1 If MTX01 is present, then MTX02 is required.
- 2 If MTX03 is present, then MTX02 is required.
- 3 If MTX05 is present, then MTX04 is required.

**Semantic Notes:**

- 1 MTX05 is the number of lines to advance before printing.

**Comments:**

- 1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

**Notes:** **This segment will contain any text clauses for the agreement referenced in the previous N9 segment.**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
MTX01	363	Note Reference Code <i>Code identifying the functional area or purpose for which the note applies</i>	O 1 ID 3/3
<b>MTX02</b>	<b>1551</b>	<b>Textual Data</b> To transmit large volumes of message text <b>Wal-Mart will send no more than 80 characters in a single instance</b>	<b>X 1 AN 1/4096</b>
MTX03	1551	Textual Data <i>To transmit large volumes of message text</i>	O 1 AN 1/4096
MTX04	934	Printer Carriage Control Code <i>A field to be used for the control of the line feed of the receiving printer</i>	X 1 ID 2/2
MTX05	1470	Number <i>A generic number</i>	O 1 N0 1/9
MTX06	819	Language Code <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	O 1 ID 2/3

**Segment:** **N1** Party Identification - Ship To  
**Position:** 3100  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
2 N105 and N106 further define the type of entity in N101.  
**Notes:** **This segment is used to identify the retailer's locations as they pertain to the order.**

**The ship-to (N101 contains code ST) may be identified in the header area or the detail area, but not both.**

**N103 and N104 are required except when N101 contains code CT, L5, MA or OB, or for direct-to-consumer when N101 contains code ST.**

**In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set. To identify the sender of the transaction set, N101 will contain code FR. To identify the receiver of the transaction set, N101 will contain code TO.**

**For spreadsheet orders, the SDQ segment identifies the retailer's ultimate destinations. When necessary, the N1 segment may be used to identify the bill-to or ship-to location. Only one iteration of each of the bill-to or ship-to is allowed. CAUTION, this will override every bill to or ship to for every location in the SDQ segment(s). For example, when the buyer is instructing the supplier to package goods for cross docking, one iteration of the N1 segment, with N101 containing code ST, may be used to indicate the ship-to location. The ship-to location overrides the ship to that is normally associated with the locations identified in the SDQ segment(s).**

**For direct-to-consumer orders, there must be at least one occurrence of the N1 segment to identify the retailer (N101 contains code BT or SN).**

**When the ship to (N101 contains code ST) is the end consumer (customer of retailer), N103 and N104 are not required.**

**When a direct-to-consumer purchase order contains multiple ship-to locations, the N1 loop in the detail area is used to identify the ship-to locations.**

#### Data Element Summary

Ref.	Data	Attributes	
Des.	Element	Name	
M	N101	98 Entity Identifier Code	M 1 ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		ST Ship To	
	N102	93 Name	X 1 AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X 1 ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		UL Global Location Number (GLN)	

A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system

**This is the 13-digit Global Location Number (GLN).**

<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
		<b>This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</b>			
<i>N105</i>	<i>706</i>	<i>Entity Relationship Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/2</i>
		<i>Code describing entity relationship</i>			
<i>N106</i>	<i>98</i>	<i>Entity Identifier Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/3</i>
		<i>Code identifying an organizational entity, a physical location, property or an individual</i>			

**Segment:** **N1** Party Identification - Bill To  
**Position:** 3100  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party	M 1 ID 2/3
	N102	93 Name Free-form name	X 1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) UL Global Location Number (GLN) A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <b>This is the 13-digit Global Location Number (GLN).</b>	X 1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code <b>This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</b>	X 1 AN 2/80
	N105	706 Entity Relationship Code Code describing entity relationship	O 1 ID 2/2
	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O 1 ID 2/3

**Segment:** **N1 Party Identification - Supplier Identification**  
**Position:** 3100  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.

**Data Element Summary**

M	Ref. Des.	Data Element	Name	Attributes	
				M	1
	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SU Supplier/Manufacturer	<b>M</b>	<b>1 ID 2/3</b>
	<b>N102</b>	<b>93</b>	<b>Name</b> Free-form name	<b>X</b>	<b>1 AN 1/60</b>
	<i>N103</i>	<i>66</i>	<i>Identification Code Qualifier</i> <i>Code designating the system/method of code structure used for Identification Code (67)</i>	<i>X</i>	<i>1 ID 1/2</i>
	<i>N104</i>	<i>67</i>	<i>Identification Code</i> <i>Code identifying a party or other code</i>	<i>X</i>	<i>1 AN 2/80</i>
	<i>N105</i>	<i>706</i>	<i>Entity Relationship Code</i> <i>Code describing entity relationship</i>	<i>O</i>	<i>1 ID 2/2</i>
	<i>N106</i>	<i>98</i>	<i>Entity Identifier Code</i> <i>Code identifying an organizational entity, a physical location, property or an individual</i>	<i>O</i>	<i>1 ID 2/3</i>

**Segment:** **N1 Party Identification - Wal-Mart Store Identification**  
**Position:** 3100  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** **This instance of the N1 Segment will be used to transmit the Global Location Number (GLN) of any new Wal-Mart or Sam's locations that may have New Store Discounts applied on for this purchase order.**  
**There may be N3 and N4 segments present for this group.**

**Data Element Summary**

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
M	<b>N101</b> 98 <b>Entity Identifier Code</b>	M	1 ID 2/3
	Code identifying an organizational entity, a physical location, property or an individual SN Store		
	<b>N102</b> 93 <b>Name</b>	X	1 AN 1/60
	Free-form name		
	<b>N103</b> 66 <b>Identification Code Qualifier</b>	X	1 ID 1/2
	Code designating the system/method of code structure used for Identification Code (67) UL Global Location Number (GLN) A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <b>This is the 13-digit Global Location Number (GLN).</b>		
	<b>N104</b> 67 <b>Identification Code</b>	X	1 AN 2/80
	Code identifying a party or other code		
	<i>N105</i> 706 <i>Entity Relationship Code</i>	<i>O</i>	<i>1 ID 2/2</i>
	<i>Code describing entity relationship</i>		
	<i>N106</i> 98 <i>Entity Identifier Code</i>	<i>O</i>	<i>1 ID 2/3</i>
	<i>Code identifying an organizational entity, a physical location, property or an individual</i>		

**Segment:** N3 Party Location  
**Position:** 3300  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	<b>Address Information</b> Address information	M 1 AN 1/55
	N302	166	<b>Address Information</b> Address information	O 1 AN 1/55

**Segment:** **N4** Geographic Location  
**Position:** 3400  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:**

- 1 Only one of N402 or N407 may be present.
- 2 If N406 is present, then N405 is required.
- 3 If N407 is present, then N404 is required.

**Semantic Notes:**  
**Comments:**

- 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	<b>City Name</b> Free-form text for city name	O 1 AN 2/30
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	X 1 ID 2/2
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O 1 ID 3/15
N404	26	<b>Country Code</b> Code identifying the country	X 1 ID 2/3
N405	309	<b>Location Qualifier</b> Code identifying type of location BS Place of Business H Home Address	X 1 ID 1/2
N406	310	<i>Location Identifier</i> <i>Code which identifies a specific location</i>	O 1 AN 1/30
N407	1715	<i>Country Subdivision Code</i> <i>Code identifying the country subdivision</i>	X 1 ID 1/3

**Segment:** **PER** Administrative Communications Contact  
**Position:** 3600  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify a person or office to whom administrative communications should be directed  
**Syntax Notes:**

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

**This segment is used to specify appropriate telephone numbers for the entity identified in the previous N1 segment in a direct-to-consumer environment.**

**Data Element Summary**

M	Ref. Des.	Data Element	Name	Attributes	
				M	1 ID 2/2
	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named OC Order Contact	M	1 ID 2/2
	PER02	93	Name Free-form name	O	1 AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number	X	1 ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X	1 AN 1/256
	PER05	365	Communication Number Qualifier Code identifying the type of communication number	X	1 ID 2/2
	PER06	364	Communication Number Complete communications number including country or area code when applicable	X	1 AN 1/256
	PER07	365	Communication Number Qualifier Code identifying the type of communication number	X	1 ID 2/2
	PER08	364	Communication Number Complete communications number including country or area code when applicable	X	1 AN 1/256
	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O	1 AN 1/20

<b>Segment:</b>	<b>PO1</b> Baseline Item Data
<b>Position:</b>	0100
<b>Loop:</b>	PO1
<b>Level:</b>	Detail
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify basic and most frequently used line item data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PO103 is present, then PO102 is required.</li> <li>2 If PO105 is present, then PO104 is required.</li> <li>3 If either PO106 or PO107 is present, then the other is required.</li> <li>4 If either PO108 or PO109 is present, then the other is required.</li> <li>5 If either PO110 or PO111 is present, then the other is required.</li> <li>6 If either PO112 or PO113 is present, then the other is required.</li> <li>7 If either PO114 or PO115 is present, then the other is required.</li> <li>8 If either PO116 or PO117 is present, then the other is required.</li> <li>9 If either PO118 or PO119 is present, then the other is required.</li> <li>10 If either PO120 or PO121 is present, then the other is required.</li> <li>11 If either PO122 or PO123 is present, then the other is required.</li> <li>12 If either PO124 or PO125 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 PO102 is quantity ordered.
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Element Dictionary for a complete list of IDs.</li> <li>2 PO101 is the line item identification.</li> <li>3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>
<b>Notes:</b>	<p><b>The multi-SKU case pack is used by retailers to order cases packed with specific items, each with a specific quantity. This is similar to the dynamic assortment, however, the unit of measurement code in PO103 is different for each use. For dynamic assortments, PO103 will contain code AS. This identifies the item listed in the Product/Service IDs as an assortment and the contents of the assortment are listed in subsequent SLN segments. For assortments, at least one occurrence of the Product/Service ID Qualifier and the Product/Service ID are required to identify the assortment. This may be a U.P.C., a vendor assigned number, or a retailer assigned number. There is no implication of packaging for assortments; this is part of the trading partners' business practices. Assortments are primarily used as an ordering tool. For the multi-SKU case pack, PO103 will contain code CA, and there is no requirement to send a Product/Service ID in the PO1 segment. The use of code CA in PO103, and the presence of the SLN segments, informs the receiver to pack the cases with the SKUs and quantities in the SLN segments. The quantity in PO102 is the number of cases being ordered. Each SLN segment, that follows the PO1 segment, lists the Product ID, e.g., U.P.C., and the quantity of the SKU that is to be in the case. The total units in each case is the sum of the quantities in the SLN segment.</b></p>

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
PO101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O 1 AN 1/20
		<b><u>Purchase Order Line Number</u></b>	
PO102	380	Quantity Numeric value of quantity	X 1 R 1/15
PO103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O 1 ID 2/2
		CA Case	
		EA Each	
PO104	212	Unit Price Price per unit of product, service, commodity, etc.	X 1 R 1/17

The price is sent with a decimal point only when needed, e.g., \$15.95 would be sent as "15.95", and \$29.00 would be sent as "29".

To indicate a no charge item or free goods, PO104 will contain a single zero (0) and PO105 will contains code NC.

PO105	639	<b>Basis of Unit Price Code</b>	O	1	ID 2/2
		Code identifying the type of unit price for an item			
		LE			Catalog Price per Each
		NC			No Charge
PO106	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IN			Buyer's Item Number
PO107	234	<b>Product/Service ID</b>	X	1	AN 1/48
		Identifying number for a product or service			
PO108	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		EN			EAN/UCC - 13 Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
		UA			U.P.C./EAN Case Code (2-5-5)
		UP			UCC - 12 Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)
PO109	234	<b>Product/Service ID</b>	X	1	AN 1/48
		Identifying number for a product or service			
PO110	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/s ource of the descriptive number used in Product/Service ID (234)			
		VN			Vendor's (Seller's) Item Number
PO111	234	<b>Product/Service ID</b>	X	1	AN 1/48
		Identifying number for a product or service			
PO112	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		BO			Buyers Color
PO113	234	<b>Product/Service ID</b>	X	1	AN 1/48
		Identifying number for a product or service			
PO114	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		IZ			Buyer's Size Code
PO115	234	<b>Product/Service ID</b>	X	1	AN 1/48
		Identifying number for a product or service			
PO116	235	<b>Product/Service ID Qualifier</b>	X	1	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		UK			GTIN 14-digit Data Structure

Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

<b>PO117</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>1 AN 1/48</b>
<i>PO118</i>	<i>235</i>	<i>Product/Service ID Qualifier</i> <i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>	<i>X</i>	<i>1 ID 2/2</i>
<i>PO119</i>	<i>234</i>	<i>Product/Service ID</i> <i>Identifying number for a product or service</i>	<i>X</i>	<i>1 AN 1/48</i>
<i>PO120</i>	<i>235</i>	<i>Product/Service ID Qualifier</i> <i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>	<i>X</i>	<i>1 ID 2/2</i>
<i>PO121</i>	<i>234</i>	<i>Product/Service ID</i> <i>Identifying number for a product or service</i>	<i>X</i>	<i>1 AN 1/48</i>
<i>PO122</i>	<i>235</i>	<i>Product/Service ID Qualifier</i> <i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>	<i>X</i>	<i>1 ID 2/2</i>
<i>PO123</i>	<i>234</i>	<i>Product/Service ID</i> <i>Identifying number for a product or service</i>	<i>X</i>	<i>1 AN 1/48</i>
<i>PO124</i>	<i>235</i>	<i>Product/Service ID Qualifier</i> <i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>	<i>X</i>	<i>1 ID 2/2</i>
<i>PO125</i>	<i>234</i>	<i>Product/Service ID</i> <i>Identifying number for a product or service</i>	<i>X</i>	<i>1 AN 1/48</i>

**Segment:** **PID** Product/Item Description - Base Curve

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:**

**The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are published only in this guideline.**

**This segment may be used to transmit semi-custom product descriptions, such as made-to-order window coverings, jewelry, furniture, apparel, automotive parts, and other customer specific products. When used for this purpose, PID04 will contain the multi-part VICS EDI Semi-Custom Product Description Code. The complete code list is contained in Section III. In addition to the VICS EDI Semi-Custom Product Description Code, PID05 may be used for text descriptions, PID06 for relative placement, and additional MEA segment(s) for actual measurement values. Details about the VICS EDI Semi-Custom Product Description Code are found in the "Data Element 751 - VICS EDI Semi-Custom Product Description Code Matrix" which is in the Appendix section of this Guide.**

**This PID Loop is used to specify Base Curve information.**

#### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	PID01	349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	M 1 ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O 1 ID 2/3
	PID03	559 Agency Qualifier Code Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	PID04	751 Product Description Code A code from an industry code list which provides specific data about a product characteristic OP03CLENBC Base Curve	X 1 AN 1/12
	PID05	352 Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80

<i>PID06</i>	<i>752</i>	<i>Surface/Layer/Position Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/2</i>
		<i>Code indicating the product surface, layer or position that is being described</i>			
<i>PID07</i>	<i>822</i>	<i>Source Subqualifier</i>	<i>O</i>	<i>1</i>	<i>AN 1/15</i>
		<i>A reference that indicates the table or text maintained by the Source Qualifier</i>			
<i>PID08</i>	<i>1073</i>	<i>Yes/No Condition or Response Code</i>	<i>O</i>	<i>1</i>	<i>ID 1/1</i>
		<i>Code indicating a Yes or No condition or response</i>			
<i>PID09</i>	<i>819</i>	<i>Language Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/3</i>
		<i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>			

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA 04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	<b>O 1 ID 2/2</b>
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	<i>O 1 ID 1/3</i>
MEA03	739	<b>Measurement Value</b> The value of the measurement	<b>X 1 R 1/20</b>
		<b><u>Format of 99.99</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	<i>X 1</i>
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>M ID 2/2</i>
C00102	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>
C00105	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Diameter

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Diameter information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENDI Diameter	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Sphere  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Sphere information.**

**Data Element Summary**

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENSP Sphere	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code	O 1 ID 2/2
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	Measurement Qualifier	O 1 ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
MEA03	739	Measurement Value	X 1 R 1/20
		The value of the measurement	
MEA04	C001	Composite Unit of Measure	X 1
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
C00101	355	Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00102	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00103	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00104	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00105	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00106	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00107	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00108	1018	Exponent	O R 1/15

C00109	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
C00110	355	<i>Value to be used as a multiplier to obtain a new value</i> Unit or Basis for Measurement Code	O	ID 2/2
C00111	1018	<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i> Exponent	O	R 1/15
C00112	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
C00113	355	<i>Value to be used as a multiplier to obtain a new value</i> Unit or Basis for Measurement Code	O	ID 2/2
C00114	1018	<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i> Exponent	O	R 1/15
C00115	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
MEA05	740	<b>Range Minimum</b> The value specifying the minimum of the measurement range	X	1 R 1/20
		<b><u>This element will contain the measurement if the value is negative.</u></b>		
MEA06	741	<b>Range Maximum</b> The value specifying the maximum of the measurement range	X	1 R 1/20
		<b><u>This element will contain the measurement if the value is positive.</u></b>		
MEA07	935	Measurement Significance Code <i>Code used to benchmark, qualify or further define a measurement value</i>	O	1 ID 2/2
MEA08	936	Measurement Attribute Code <i>Code used to express an attribute response when a numeric measurement value cannot be determined</i>	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code <i>Code indicating the product surface, layer or position that is being described</i>	O	1 ID 2/2
MEA10	1373	Measurement Method or Device <i>The method or device used to record the measurement</i>	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code <i>Code identifying a specific industry code list</i>	X	1 ID 1/3
MEA12	1271	Industry Code <i>Code indicating a code from a specific industry code list</i>	X	1 AN 1/30

<b>Segment:</b>	<b>PID</b> Product/Item Description - Cylinder
<b>Position:</b>	0500
<b>Loop:</b>	PO1-PID
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<b><u>This PID Loop is used to specify Cylinder information.</u></b>

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENCL Cylinder	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

**Segment:** **MEA** Measurements

**Position:** 0600

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 Only one of MEA04 or MEA12 may be present.
- 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
- 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
- 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 6 Only one of MEA08 or MEA03 may be present.
- 7 If either MEA11 or MEA12 is present, then the other is required.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 2 MEA11 is the external code list for the unit of measure.
- 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	Measurement Reference ID Code	O 1 ID 2/2
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	Measurement Qualifier	O 1 ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
MEA03	739	Measurement Value	X 1 R 1/20
		The value of the measurement	
MEA04	C001	Composite Unit of Measure	X 1
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
C00101	355	Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00102	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00103	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00104	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00105	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00106	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00107	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
C00108	1018	Exponent	O R 1/15

C00109	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
C00110	355	<i>Value to be used as a multiplier to obtain a new value</i> Unit or Basis for Measurement Code	O	ID 2/2
C00111	1018	<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i> Exponent	O	R 1/15
C00112	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
C00113	355	<i>Value to be used as a multiplier to obtain a new value</i> Unit or Basis for Measurement Code	O	ID 2/2
C00114	1018	<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i> Exponent	O	R 1/15
C00115	649	<i>Power to which a unit is raised</i> Multiplier	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
		<b><u>This element will contain the measurement if the value is negative.</u></b>		
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
		<b><u>This element will contain the measurement if the value is positive.</u></b>		
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Axis Degree

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Axis Degree information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENAD Axis Degree	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b>Format of 999</b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Add Power  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Add Power information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLE NAP Add Power	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b>Format of 9.99</b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Color  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Color information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description X Semi-structured (Code and Text) <b>The description will be found in PID04 and PID05.</b>	M 1 ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O 1 ID 2/3
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP04CLENCO Color	X 1 AN 1/12
	<b>PID05</b>	<b>352 Description</b> A free-form description to clarify the related data elements and their content <b>The color description can be up to 20 characters in length.</b>	X 1 AN 1/80
	PID06	752 Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O 1 ID 2/2
	PID07	822 Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O 1 AN 1/15
	PID08	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O 1 ID 1/1
	PID09	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O 1 ID 2/3

<b>Segment:</b>	<b>PID</b> Product/Item Description - Trial Indicator
<b>Position:</b>	0500
<b>Loop:</b>	PO1-PID
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<b><u>This PID Loop is used to specify Trial Indicator information.</u></b>

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	<b>PID01</b>	<b>349</b> <b>Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750</i> <i>Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559</b> <b>Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751</b> <b>Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENTI Trial Indicator	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352</i> <i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752</i> <i>Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822</i> <i>Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<b>PID08</b>	<b>1073</b> <b>Yes/No Condition or Response Code</b> Code indicating a Yes or No condition or response N No Y Yes	<b>O 1 ID 1/1</b>
	<i>PID09</i>	<i>819</i> <i>Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

<b>Segment:</b>	<b>PID</b> Product/Item Description - Dot in Eye
<b>Position:</b>	0500
<b>Loop:</b>	PO1-PID
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<b><u>This PID Loop is used to specify Dot in Eye information.</u></b>

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENDE Dot In Eye	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<b>PID08</b>	<b>1073 Yes/No Condition or Response Code</b> Code indicating a Yes or No condition or response N No Y Yes	<b>O 1 ID 1/1</b>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

**Segment:** **PID** Product/Item Description - Right Eye/Left Eye

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify which eye the lens is for (Right/Left).**

#### Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	PID01	349 Item Description Type Code indicating the format of a description X Semi-structured (Code and Text)	M 1 ID 1/1
<b>The description will be found in PID04 and PID05.</b>			
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O 1 ID 2/3
	PID03	559 Agency Qualifier Code Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	PID04	751 Product Description Code A code from an industry code list which provides specific data about a product characteristic OP04CLENEL Right Eye / Left Eye Indicator	X 1 AN 1/12
	PID05	352 Description A free-form description to clarify the related data elements and their content L Left Eye R Right Eye	X 1 AN 1/80
	PID06	752 Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O 1 ID 2/2
	PID07	822 Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O 1 AN 1/15
	PID08	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O 1 ID 1/1
	PID09	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O 1 ID 2/3

**Segment:** **PID** Product/Item Description - Lens Type

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Lens Type information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description X Semi-structured (Code and Text) <b>The description will be found in PID04 and PID05.</b>	M 1 ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O 1 ID 2/3
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP04CLENLT Lens Type	X 1 AN 1/12
	<b>PID05</b>	<b>352 Description</b> A free-form description to clarify the related data elements and their content <b>This element will contain the lens type. It can be up to 20 characters in length.</b>	X 1 AN 1/80
	PID06	752 Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O 1 ID 2/2
	PID07	822 Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O 1 AN 1/15
	PID08	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O 1 ID 1/1
	PID09	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O 1 ID 2/3

**Segment:** **PID** Product/Item Description - Curve 1  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Curve 1 information.**

**Data Element Summary**

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENC1 Curve 1	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b>Format of 99.99</b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Degree 1  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Degree 1 information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLEND1 Degree 1	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA 06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	<b>O 1 ID 2/2</b>
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	<i>O 1 ID 1/3</i>
MEA03	739	<b>Measurement Value</b> The value of the measurement	<b>X 1 R 1/20</b>
		<b>Format of 999</b>	
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	<i>X 1</i>
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>M ID 2/2</i>
C00102	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>
C00105	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Curve 2

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Curve 2 information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENC2 Curve 2	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

**Segment:** **MEA** Measurements

**Position:** 0600

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 Only one of MEA04 or MEA12 may be present.
- 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
- 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
- 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 6 Only one of MEA08 or MEA03 may be present.
- 7 If either MEA11 or MEA12 is present, then the other is required.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 2 MEA11 is the external code list for the unit of measure.
- 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 99.99</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Degree 2  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Degree 2 information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	M 1 ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O 1 ID 2/3
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLEND2 Degree 2	X 1 AN 1/12
	PID05	352 Description A free-form description to clarify the related data elements and their content	X 1 AN 1/80
	PID06	752 Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O 1 ID 2/2
	PID07	822 Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O 1 AN 1/15
	PID08	1073 Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O 1 ID 1/1
	PID09	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O 1 ID 2/3

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA 12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b>Format of 999</b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Vertex

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Vertex information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENVT Vertex	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

**Segment:** **MEA** Measurements

**Position:** 0600

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 Only one of MEA04 or MEA12 may be present.
- 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
- 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
- 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 6 Only one of MEA08 or MEA03 may be present.
- 7 If either MEA11 or MEA12 is present, then the other is required.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 2 MEA11 is the external code list for the unit of measure.
- 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	<b>O 1 ID 2/2</b>
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	<i>O 1 ID 1/3</i>
MEA03	739	<b>Measurement Value</b> The value of the measurement	<b>X 1 R 1/20</b>
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	<i>X 1</i>
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>M ID 2/2</i>
C00102	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>
C00105	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Optical Zone

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Optical Zone information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENOZ Optical Zone	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	<b>O 1 ID 2/2</b>
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	<i>O 1 ID 1/3</i>
MEA03	739	<b>Measurement Value</b> The value of the measurement	<b>X 1 R 1/20</b>
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	<i>X 1</i>
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>M ID 2/2</i>
C00102	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>
C00105	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Thickness

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Thickness information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENTK Thickness	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA 05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	<b>O 1 ID 2/2</b>
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	<i>O 1 ID 1/3</i>
MEA03	739	<b>Measurement Value</b> The value of the measurement	<b>X 1 R 1/20</b>
		<b><u>Format of 9.99</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	<i>X 1</i>
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>M ID 2/2</i>
C00102	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>
C00105	1018	<i>Exponent</i> Power to which a unit is raised	<i>O R 1/15</i>
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	<i>O R 1/10</i>
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<i>O ID 2/2</i>

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Truncation  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Truncation information.**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENTR Truncation	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies	O 1 ID 2/2
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i> Code identifying a specific product or process characteristic to which a measurement applies	O 1 ID 1/3
MEA03	739	<b>Measurement Value</b> The value of the measurement	X 1 R 1/20
<b>Format of 9.9</b>			
MEA04	C001	<i>Composite Unit of Measure</i> To identify a composite unit of measure (See Figures Appendix for examples of use)	X 1
C00101	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
C00102	1018	<i>Exponent</i> Power to which a unit is raised	O R 1/15
C00103	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	O R 1/10
C00104	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
C00105	1018	<i>Exponent</i> Power to which a unit is raised	O R 1/15
C00106	649	<i>Multiplier</i> Value to be used as a multiplier to obtain a new value	O R 1/10
C00107	355	<i>Unit or Basis for Measurement Code</i> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

<b>Segment:</b>	<b>PID</b> Product/Item Description - Segment Height
<b>Position:</b>	0500
<b>Loop:</b>	PO1-PID
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	<b><u>This PID Loop is used to specify Segment Height information.</u></b>

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENISH Segment Height	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 9.99</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Secondary Curves

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Secondary Curve information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENSC Secondary Curves	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Peripheral Curves  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:** 1 If PID04 is present, then PID03 is required.  
2 At least one of PID04 or PID05 is required.  
3 If PID07 is present, then PID03 is required.  
4 If PID08 is present, then PID04 is required.  
5 If PID09 is present, then PID05 is required.  
**Semantic Notes:** 1 Use PID03 to indicate the organization that publishes the code list being referred to.  
2 PID04 should be used for industry-specific product description codes.  
3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.  
4 PID09 is used to identify the language being used in PID05.  
**Comments:** 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.  
2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.  
3 PID07 specifies the individual code list of the agency specified in PID03.  
**Notes:** **This PID Loop is used to specify Peripheral Curve information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENPC Peripheral Curves	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA 05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Lenticular Optical Zone

**Position:** 0500

**Loop:** PO1-PID

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

**Semantic Notes:**

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:**

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** **This PID Loop is used to specify Lenticular Optical Zone information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENLZ Lenticular Optical Zone	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b><u>Format of 99.9</u></b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **PID** Product/Item Description - Segment Height Measured After Truncation  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:** 1 If PID04 is present, then PID03 is required.  
2 At least one of PID04 or PID05 is required.  
3 If PID07 is present, then PID03 is required.  
4 If PID08 is present, then PID04 is required.  
5 If PID09 is present, then PID05 is required.  
**Semantic Notes:** 1 Use PID03 to indicate the organization that publishes the code list being referred to.  
2 PID04 should be used for industry-specific product description codes.  
3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.  
4 PID09 is used to identify the language being used in PID05.  
**Comments:** 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.  
2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.  
3 PID07 specifies the individual code list of the agency specified in PID03.  
**Notes:** **This PID Loop is used to specify whether or not the Segment Height measurement was taken after Truncation.**

**Data Element Summary**

Ref.	Data			Attributes
Des.	Element	Name		
M	PID01	349	<b>Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	M 1 ID 1/1
	PID02	750	<i>Product/Process Characteristic Code</i> Code identifying the general class of a product or process characteristic O 1 ID 2/3	
	PID03	559	<b>Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	X 1 ID 2/2
	PID04	751	<b>Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic <b>The color description can be up to 20 characters in length.</b> OP03CLENST Segment Height Measured After Translation	X 1 AN 1/12
	PID05	352	<i>Description</i> A free-form description to clarify the related data elements and their content X 1 AN 1/80	
	PID06	752	<i>Surface/Layer/Position Code</i> Code indicating the product surface, layer or position that is being described O 1 ID 2/2	
	PID07	822	<i>Source Subqualifier</i> A reference that indicates the table or text maintained by the Source Qualifier O 1 AN 1/15	
	PID08	1073	<b>Yes/No Condition or Response Code</b> Code indicating a Yes or No condition or response N No Y Yes	O 1 ID 1/1
	PID09	819	<i>Language Code</i> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) O 1 ID 2/3	

**Segment:** **PID** Product/Item Description - Prism  
**Position:** 0500  
**Loop:** PO1-PID  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To describe a product or process in coded or free-form format  
**Syntax Notes:** 1 If PID04 is present, then PID03 is required.  
2 At least one of PID04 or PID05 is required.  
3 If PID07 is present, then PID03 is required.  
4 If PID08 is present, then PID04 is required.  
5 If PID09 is present, then PID05 is required.  
**Semantic Notes:** 1 Use PID03 to indicate the organization that publishes the code list being referred to.  
2 PID04 should be used for industry-specific product description codes.  
3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.  
4 PID09 is used to identify the language being used in PID05.  
**Comments:** 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.  
2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.  
3 PID07 specifies the individual code list of the agency specified in PID03.  
**Notes:** **This PID Loop is used to specify Prism information.**

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	<b>PID01</b>	<b>349 Item Description Type</b> Code indicating the format of a description S Structured (From Industry Code List) <b>The description will be found in PID04.</b>	<b>M 1 ID 1/1</b>
	<i>PID02</i>	<i>750 Product/Process Characteristic Code</i> <i>Code identifying the general class of a product or process characteristic</i>	<i>O 1 ID 2/3</i>
	<b>PID03</b>	<b>559 Agency Qualifier Code</b> Code identifying the agency assigning the code values AB Assigned by Buyer	<b>X 1 ID 2/2</b>
	<b>PID04</b>	<b>751 Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic OP03CLENPM Prism	<b>X 1 AN 1/12</b>
	<i>PID05</i>	<i>352 Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>PID06</i>	<i>752 Surface/Layer/Position Code</i> <i>Code indicating the product surface, layer or position that is being described</i>	<i>O 1 ID 2/2</i>
	<i>PID07</i>	<i>822 Source Subqualifier</i> <i>A reference that indicates the table or text maintained by the Source Qualifier</i>	<i>O 1 AN 1/15</i>
	<i>PID08</i>	<i>1073 Yes/No Condition or Response Code</i> <i>Code indicating a Yes or No condition or response</i>	<i>O 1 ID 1/1</i>
	<i>PID09</i>	<i>819 Language Code</i> <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	<i>O 1 ID 2/3</i>

- Segment:** **MEA** Measurements
- Position:** 0600
- Loop:** PO1-PID
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
  - 2 Only one of MEA04 or MEA12 may be present.
  - 3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
  - 4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
  - 5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
  - 6 Only one of MEA08 or MEA03 may be present.
  - 7 If either MEA11 or MEA12 is present, then the other is required.
- Semantic Notes:**
- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
  - 2 MEA11 is the external code list for the unit of measure.
  - 3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.
- Comments:**
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
MEA01	737	<b>Measurement Reference ID Code</b>	<b>O 1 ID 2/2</b>
		Code identifying the broad category to which a measurement applies	
		OD Ordered Dimensions	
MEA02	738	<i>Measurement Qualifier</i>	<i>O 1 ID 1/3</i>
		<i>Code identifying a specific product or process characteristic to which a measurement applies</i>	
MEA03	739	<b>Measurement Value</b>	<b>X 1 R 1/20</b>
		The value of the measurement	
		<b>Format of 9.99</b>	
MEA04	C001	<i>Composite Unit of Measure</i>	<i>X 1</i>
		<i>To identify a composite unit of measure (See Figures Appendix for examples of use)</i>	
C00101	355	<i>Unit or Basis for Measurement Code</i>	<i>M ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00102	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00103	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00104	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	
C00105	1018	<i>Exponent</i>	<i>O R 1/15</i>
		<i>Power to which a unit is raised</i>	
C00106	649	<i>Multiplier</i>	<i>O R 1/10</i>
		<i>Value to be used as a multiplier to obtain a new value</i>	
C00107	355	<i>Unit or Basis for Measurement Code</i>	<i>O ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	

C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	X	1 R 1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X	1 R 1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	1 ID 2/2
MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	X	1 ID 2/2
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1 ID 2/2
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	1 ID 2/4
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	X	1 ID 1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	X	1 AN 1/30

**Segment:** **REF** Reference Information  
**Position:** 1000  
**Loop:** PO1  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** **This segment is used to identify the customer ID.**

**Data Element Summary**

M	Ref.	Data	Attributes	
	Des.	Element Name		
	<b>REF01</b>	<b>128</b> <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification CR Customer Reference Number	<b>M</b>	<b>1 ID 2/3</b>
	<b>REF02</b>	<b>127</b> <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X</b>	<b>1 AN 1/50</b>
	<i>REF03</i>	<i>352</i> <i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X</i>	<i>1 AN 1/80</i>
	<i>REF04</i>	<i>C040</i> <i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	<i>O</i>	<i>1</i>
	<i>C04001</i>	<i>128</i> <i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>M</i>	<i>ID 2/3</i>
	<i>C04002</i>	<i>127</i> <i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>M</i>	<i>AN 1/50</i>
	<i>C04003</i>	<i>128</i> <i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X</i>	<i>ID 2/3</i>
	<i>C04004</i>	<i>127</i> <i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X</i>	<i>AN 1/50</i>
	<i>C04005</i>	<i>128</i> <i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X</i>	<i>ID 2/3</i>
	<i>C04006</i>	<i>127</i> <i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X</i>	<i>AN 1/50</i>

**Segment:** **SAC** Service, Promotion, Allowance, or Charge Information  
**Position:** 1300  
**Loop:** PO1-SAC  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC14 is present, then SAC13 is required.
  - 7 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
  - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 SAC16 is used to identify the language being used in SAC15.

- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
  - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

**Notes:** **There is one segment for each Allowance, Charge, Service, or Promotion being specified. If this segment appears in the header area of the transaction set, the data applies to the entire transaction set. If this segment appears in the detail area of the transaction set, the data applies only to that line item. The data specified in the header area is exclusive of the data specified in the detail area; it is not the sum of the data in the detail area, i.e., allowances or charges.**

**SAC04 contains special service requirement codes and special processing codes. This code list is maintained in Section III of this guideline.**

#### Data Element Summary

Ref.	Data			Attributes
Des.	Element	Name		
M	SAC01	248	Allowance or Charge Indicator	M 1 ID 1/1
			Code which indicates an allowance or charge for the service specified	
		A	Allowance	
		C	Charge	
	SAC02	1300	Service, Promotion, Allowance, or Charge Code	X 1 ID 4/4
			Code identifying the service, promotion, allowance, or charge	
		A260	Advertising Allowance	
		B000	Central Buy	
		B010	Cents Off	

B270	Collect Surcharge
B320	Competitive Allowance
B690	Controlled Atmosphere
B720	Cooperative Advertising/Merchandising Allowance (Performance)
B860	Customs Broker Fee
B870	Customs Charge
B940	Cutting Charge
B950	Damaged Merchandise
C000	Defective Allowance
C300	Discount - Special
C310	Discount
C320	Display Allowance
C490	Drum Deposit
C530	Duty Charge
C540	Early Buy Allowance
C550	Early Payment Allowance
C580	Emergency Service
D170	Free Goods
D240	Freight
D430	Gross Receipts Surcharge
D500	Handling
D870	Inspection
E720	New Distribution Allowance
E740	New Store Allowance
E750	New Store Discount
E760	New Warehouse Discount
F050	Other (See related description)
F180	Pallet
F210	Parish/County Sales Tax (only)
F330	Pickup and Delivery
F580	Preparation and Delivery
F670	Price and Marketing Allowance
F800	Promotional Allowance
F910	Quantity Discount
F920	Quantity Surcharge
F970	Rebate
G220	Refrigeration
G470	Restocking Charge
H010	Special Buy
H090	Special Handling
H420	Storage in Transit
H750	Tax - Sales Tax (State and Local)
H770	Tax - State Tax
H780	Tax - Super Fund Excise Tax
H910	Temperature Protection
H920	Temporary Allowance
I000	Testing
I170	Trade Discount
I310	Truckload Discount
I390	Unloading

		I410	Unsaleable Merchandise Allowance		
		I530	Volume Discount		
		I570	Warehouse		
SAC03	559	<i>Agency Qualifier Code</i>		X	1 ID 2/2
		<i>Code identifying the agency assigning the code values</i>			
SAC04	1301	<i>Agency Service, Promotion, Allowance, or Charge Code</i>		X	1 AN 1/10
		<i>Agency maintained code identifying the service, promotion, allowance, or charge</i>			
SAC05	610	<b>Amount</b>		O	1 N2 1/15
		Monetary amount			
		<b>When SAC01 contains code A or code C, then this data element is required. This will resolve any differences between the sender's and receiver's system calculations of amounts, i.e., rounding errors when allowances or charges are expressed in percentages or rates.</b>			
SAC06	378	<b>Allowance/Charge Percent Qualifier</b>		X	1 ID 1/1
		Code indicating on what basis allowance or charge percent is calculated			
		6	Base Price Amount		
SAC07	332	<b>Percent, Decimal Format</b>		X	1 R 1/6
		Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%)			
		<b>The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2".</b>			
SAC08	118	<b>Rate</b>		O	1 R 1/9
		Rate expressed in the standard monetary denomination for the currency specified			
SAC09	355	<b>Unit or Basis for Measurement Code</b>		X	1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
		CA	Case		
		EA	Each		
SAC10	380	<b>Quantity</b>		X	1 R 1/15
		Numeric value of quantity			
		<b>When SAC02 contains code D170, this data element is required and will contain the quantity of free goods. The unit of measure is in SAC09.</b>			
		<b>SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to the service, promotion, allowance, or charge.</b>			
SAC11	380	<i>Quantity</i>		O	1 R 1/15
		<i>Numeric value of quantity</i>			
SAC12	331	<b>Allowance or Charge Method of Handling Code</b>		O	1 ID 2/2
		Code indicating method of handling for an allowance or charge			
		01	Bill Back		
		<b>The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice. The amount will not be reflected in the invoice total amount.</b>			
		02	Off Invoice		
		<b>The allowance or charge amount will be reflected in the total transaction amount, e.g., Total Invoice Amount = Merchandise Price + Charges - Allowances.</b>			
		03	Vendor Check to Customer		
		<b>The vendor will issue a check directly to the customer of the retailer, or end consumer, for the allowance or charge amount. The amount is not reflected in the total invoice amount.</b>			

**The retailer's account will be credited for the amount of the allowance or charge. The amount is not reflected in the total invoice amount.**

SAC13	127	Reference Identification	X	1	AN 1/50
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>			
SAC14	770	Option Number	O	1	AN 1/20
		<i>A unique number identifying available promotion or allowance options when more than one is offered</i>			
SAC15	352	Description	X	1	AN 1/80
		<i>A free-form description to clarify the related data elements and their content</i>			
SAC16	819	Language Code	O	1	ID 2/3
		<i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>			

**Segment:** **SDQ** Destination Quantity

**Position:** 1900

**Loop:** PO1

**Level:** Detail

**Usage:** Optional

**Max Use:** 500

**Purpose:** To specify destination and quantity detail

**Syntax Notes:**

- 1 If either SDQ05 or SDQ06 is present, then the other is required.
- 2 If either SDQ07 or SDQ08 is present, then the other is required.
- 3 If either SDQ09 or SDQ10 is present, then the other is required.
- 4 If either SDQ11 or SDQ12 is present, then the other is required.
- 5 If either SDQ13 or SDQ14 is present, then the other is required.
- 6 If either SDQ15 or SDQ16 is present, then the other is required.
- 7 If either SDQ17 or SDQ18 is present, then the other is required.
- 8 If either SDQ19 or SDQ20 is present, then the other is required.
- 9 If either SDQ21 or SDQ22 is present, then the other is required.

**Semantic Notes:**

- 1 SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

**Comments:**

- 1 SDQ02 is used only if different than previously defined in the transaction set.
- 2 SDQ03 is the store number.
- 3 SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

**Notes:**

**This segment is used to distribute the line item quantity to various locations. SDQ02 serves the same purpose as N103, and all occurrences of Data Element 67 in this segment function as N104. The sum of all quantities in the SDQ segment(s) for a line item must equal the quantity ordered in PO102.**

**IMPORTANT:**

**Wal-Mart uses Global Location Numbers (GLN) to represent each store location in an SDQ segment. These numbers are non-parseable. You cannot determine the store number by parsing it out of the GLN. You must reference the GLN from the 816 (Organizational Relationship) document and retrieve the correct store number from there.**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	SDQ01	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CA Case EA Each	M 1 ID 2/2
	SDQ02	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) UL Global Location Number (GLN) A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <b>This is the 13-digit Global Location Number (GLN).</b>	O 1 ID 1/2
M	SDQ03	67 Identification Code Code identifying a party or other code	M 1 AN 2/80
M	SDQ04	380 Quantity Numeric value of quantity	M 1 R 1/15
	SDQ05	67 Identification Code Code identifying a party or other code	X 1 AN 2/80
	SDQ06	380 Quantity	X 1 R 1/15

		Numeric value of quantity			
<b>SDQ07</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ08</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ09</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ10</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ11</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ12</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ13</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ14</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ15</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ16</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ17</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ18</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ19</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ20</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<b>SDQ21</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>1</b>	<b>AN 2/80</b>
		Code identifying a party or other code			
<b>SDQ22</b>	<b>380</b>	<b>Quantity</b>	<b>X</b>	<b>1</b>	<b>R 1/15</b>
		Numeric value of quantity			
<i>SDQ23</i>	<i>310</i>	<i>Location Identifier</i>	<i>O</i>	<i>1</i>	<i>AN 1/30</i>
		<i>Code which identifies a specific location</i>			

**Segment:** **N9** Extended Reference Information - Store Number  
**Position:** 3300  
**Loop:** PO1-N9  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

**Comments:**  
**Notes:**

**Codes 3O, 3R, and 3T are reference number qualifiers used to identify a reference number assigned by the U.S. Customs Service (USCS) after they have reviewed an item and determined the proper tariff classification in the harmonized system. These rulings are binding to both the importer and U.S. Customs. These ruling numbers are required by U.S. Customs to be shown on entry documents.**

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification ST Store Number	M 1 ID 2/3
	N902	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <b>Wal-Mart Global Location Number (GLN)</b>	X 1 AN 1/50
	N903	369 <i>Free-form Description</i> <i>Free-form descriptive text</i>	X 1 AN 1/45
	N904	373 <i>Date</i> <i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>	O 1 DT 8/8
	N905	337 <i>Time</i> <i>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</i>	X 1 TM 4/8
	N906	623 <i>Time Code</i> <i>Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow</i>	O 1 ID 2/2
	N907	C040 Reference Identifier <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
	C04002	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128 Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
	C04004	127 Reference Identification	X AN 1/50

		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		
C04005	128	<i>Reference Identification Qualifier</i>	X	ID 2/3
		<i>Code qualifying the Reference Identification</i>		
C04006	127	<i>Reference Identification</i>	X	AN 1/50
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		

Segment: **N9** Extended Reference Information - Notes

Position: 3300

Loop: PO1-N9

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Syntax Notes: 1 At least one of N902 or N903 is required.  
2 If N906 is present, then N905 is required.  
3 If either C04003 or C04004 is present, then the other is required.  
4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 N906 reflects the time zone which the time reflects.  
2 N907 contains data relating to the value cited in N902.

Comments:

Notes:

Codes 3O, 3R, and 3T are reference number qualifiers used to identify a reference number assigned by the U.S. Customs Service (USCS) after they have reviewed an item and determined the proper tariff classification in the harmonized system. These rulings are binding to both the importer and U.S. Customs. These ruling numbers are required by U.S. Customs to be shown on entry documents.

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification	M	1 ID 2/3
		L1 Letters or Notes		
	N902	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	1 AN 1/50
		<b><u>This will always contain the literal, "Special Instructions"</u></b>		
	N903	369 Free-form Description Free-form descriptive text	X	1 AN 1/45
	N904	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1 DT 8/8
	N905	337 Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	1 TM 4/8
	N906	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	1 ID 2/2
	N907	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	1
	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification	M	ID 2/3
	C04002	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN 1/50
	C04003	128 Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
	C04004	127 Reference Identification	X	AN 1/50

		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		
C04005	128	<i>Reference Identification Qualifier</i>	X	ID 2/3
		<i>Code qualifying the Reference Identification</i>		
C04006	127	<i>Reference Identification</i>	X	AN 1/50
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		

**Segment:** **MTX** Text  
**Position:** 3400  
**Loop:** PO1-N9  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify textual data  
**Syntax Notes:**

- 1 If MTX01 is present, then MTX02 is required.
- 2 If MTX03 is present, then MTX02 is required.
- 3 If MTX05 is present, then MTX04 is required.

**Semantic Notes:**

- 1 MTX05 is the number of lines to advance before printing.

**Comments:**

- 1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

**Data Element Summary**

<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
MTX01	363	Note Reference Code <i>Code identifying the functional area or purpose for which the note applies</i>	O 1 ID 3/3
<b>MTX02</b>	<b>1551</b>	<b>Textual Data</b> To transmit large volumes of message text <b>Wal-Mart will send no more than 80 characters in a single instance.</b>	<b>X 1 AN 1/4096</b>
MTX03	1551	Textual Data <i>To transmit large volumes of message text</i>	O 1 AN 1/4096
MTX04	934	Printer Carriage Control Code <i>A field to be used for the control of the line feed of the receiving printer</i>	X 1 ID 2/2
MTX05	1470	Number <i>A generic number</i>	O 1 N0 1/9
MTX06	819	Language Code <i>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</i>	O 1 ID 2/3

**Segment:** **AMT** Monetary Amount Information  
**Position:** 6000  
**Loop:** PO1-AMT  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount 1 Line Item Total	M 1 ID 1/3
M	AMT02	782	<b>Monetary Amount</b> Monetary amount	M 1 R 1/18
	AMT03	478	<i>Credit/Debit Flag Code</i> <i>Code indicating whether amount is a credit or debit</i>	O 1 ID 1/1

**Segment:** **CTT** Transaction Totals  
**Position:** 0100  
**Loop:** CTT  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.  
2 If either CTT05 or CTT06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

Ref.	Data				
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>		
M	CTT01	354	<b>Number of Line Items</b>	M	1 N0 1/6
			Total number of line items in the transaction set		
			<b>The number of PO1 segments present in the transaction set</b>		
	CTT02	347	<i>Hash Total</i>	O	1 R 1/10
			<i>Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.</i>		
			<i>Example:</i>		
			<i>-.0018 First occurrence of value being hashed.</i>		
			<i>.18 Second occurrence of value being hashed.</i>		
			<i>1.8 Third occurrence of value being hashed.</i>		
			<i>18.01 Fourth occurrence of value being hashed.</i>		
			<i>18E2 Fifth occurrence of value being hashed.</i>		
			<i>-----</i>		
			<i>1873 Hash Total</i>		
	CTT03	81	<i>Weight</i>	X	1 R 1/10
			<i>Numeric value of weight</i>		
	CTT04	355	<i>Unit or Basis for Measurement Code</i>	X	1 ID 2/2
			<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>		
	CTT05	183	<i>Volume</i>	X	1 R 1/8
			<i>Value of volumetric measure</i>		
	CTT06	355	<i>Unit or Basis for Measurement Code</i>	X	1 ID 2/2
			<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>		
	CTT07	352	<i>Description</i>	O	1 AN 1/80
			<i>A free-form description to clarify the related data elements and their content</i>		

**Segment:** **AMT** Monetary Amount Information  
**Position:** 0200  
**Loop:** CTT  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount TT Total Transaction Amount	M 1 ID 1/3
M	AMT02	782	Monetary Amount Monetary amount <b>This is the total amount of the purchase order (including charges, less allowances) before terms discount (if discount is applicable).</b>	M 1 R 1/18
	AMT03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O 1 ID 1/1

**Segment:** **SE** Transaction Set Trailer  
**Position:** 0300  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
M	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>This must be the same number as is in the ST segment (ST02) for the transaction set.</b>	M 1 AN 4/9

## **850 Purchase Order – ANSI X12 Introduction**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

# 850 Purchase Order – ANSI X12 Standards

Functional Group ID=**PO**

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BEG	Beginning Segment for Purchase Order	M	1		
	0400	CUR	Currency	O	1		
	0500	REF	Reference Identification	O	>1		
	0600	PER	Administrative Communications Contact	O	3		
	0700	TAX	Tax Reference	O	>1		
	0800	FOB	F.O.B. Related Instructions	O	>1		
	0900	CTP	Pricing Information	O	>1		
	0950	PAM	Period Amount	O	10		
	1100	CSH	Sales Requirements	O	5		
	1150	TC2	Commodity	O	>1		
LOOP ID - SAC						25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1250	CUR	Currency	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	1400	DIS	Discount Detail	O	20		
	1450	INC	Installment Information	O	1		
	1500	DTM	Date/Time Reference	O	10		
	1800	LIN	Item Identification	O	5		n1
	1850	SI	Service Characteristic Identification	O	>1		
	1900	PID	Product/Item Description	O	200		
	2000	MEA	Measurements	O	40		
	2100	PWK	Paperwork	O	25		
	2200	PKG	Marking, Packaging, Loading	O	200		
	2300	TD1	Carrier Details (Quantity and Weight)	O	2		
	2400	TD5	Carrier Details (Routing Sequence/Transit Time)	O	>1		
	2500	TD3	Carrier Details (Equipment)	O	12		
	2600	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	2700	MAN	Marks and Numbers	O	10		
	2760	PCT	Percent Amounts	O	>1		
	2800	CTB	Restrictions/Conditions	O	5		
	2850	TXI	Tax Information	O	>1		
LOOP ID - LDT						>1	
	2855	LDT	Lead Time	O	1		
	2858	QTY	Quantity	O	>1		
	2860	MTX	Text	O	>1		
	2865	REF	Reference Identification	O	>1		
LOOP ID - AMT						>1	
	2870	AMT	Monetary Amount	O	1		

2890	REF	Reference Identification	O	>1
2900	DTM	Date/Time Reference	O	1
2920	PCT	Percent Amounts	O	>1
LOOP ID - FA1				>1
2930	FA1	Type of Financial Accounting Data	O	1
2940	FA2	Accounting Data	M	>1
LOOP ID - N9				1000
2950	N9	Reference Identification	O	1
2970	DTM	Date/Time Reference	O	>1
3000	MTX	Text	O	>1
3050	PWK	Paperwork	O	>1
3080	EFI	Electronic Format Identification	O	>1
LOOP ID - N1				200
3100	N1	Name	O	1
3200	N2	Additional Name Information	O	2
3250	IN2	Individual Name Structure Components	O	>1
3300	N3	Address Information	O	2
3400	N4	Geographic Location	O	>1
3450	NX2	Location ID Component	O	>1
3500	REF	Reference Identification	O	12
3600	PER	Administrative Communications Contact	O	>1
3650	SI	Service Characteristic Identification	O	>1
3700	FOB	F.O.B. Related Instructions	O	1
3800	TD1	Carrier Details (Quantity and Weight)	O	2
3900	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
4000	TD3	Carrier Details (Equipment)	O	12
4100	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
4200	PKG	Marking, Packaging, Loading	O	200
LOOP ID - N1				200
3100	N1	Name	O	1
3200	N2	Additional Name Information	O	2
3250	IN2	Individual Name Structure Components	O	>1
3300	N3	Address Information	O	2
3400	N4	Geographic Location	O	>1
3450	NX2	Location ID Component	O	>1
3500	REF	Reference Identification	O	12
3600	PER	Administrative Communications Contact	O	>1
3650	SI	Service Characteristic Identification	O	>1
3700	FOB	F.O.B. Related Instructions	O	1
3800	TD1	Carrier Details (Quantity and Weight)	O	2
3900	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
4000	TD3	Carrier Details (Equipment)	O	12
4100	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
4200	PKG	Marking, Packaging, Loading	O	200
LOOP ID - LM				>1
4300	LM	Code Source Information	O	1
4400	LQ	Industry Code	M	>1
LOOP ID - SPI				>1

4500	SPI	Specification Identifier	O	1
4600	REF	Reference Identification	O	5
4700	DTM	Date/Time Reference	O	5
4800	MTX	Text	O	>1
<b>LOOP ID - N1</b>				<b>20</b>
4900	N1	Name	O	1
5000	N2	Additional Name Information	O	2
5100	N3	Address Information	O	2
5200	N4	Geographic Location	O	1
5300	REF	Reference Identification	O	20
5400	G61	Contact	O	1
5500	MTX	Text	O	>1
<b>LOOP ID - CB1</b>				<b>&gt;1</b>
5600	CB1	Contract and Cost Accounting Standards Data	O	1
5700	REF	Reference Identification	O	20
5800	DTM	Date/Time Reference	O	5
5900	LDT	Lead Time	O	1
6000	MTX	Text	O	>1
<b>LOOP ID - ADV</b>				<b>&gt;1</b>
6100	ADV	Advertising Demographic Information	O	1
6200	DTM	Date/Time Reference	O	>1
6300	MTX	Text	O	>1

**Detail:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	<b>LOOP ID - PO1</b>					<b>100000</b>	
M	0100	PO1	Baseline Item Data	M	1		n2
	0150	LIN	Item Identification	O	>1		
	0180	SI	Service Characteristic Identification	O	>1		
	0200	CUR	Currency	O	1		
	0250	CN1	Contract Information	O	1		
	0300	PO3	Additional Item Detail	O	25		
	<b>LOOP ID - CTP</b>					<b>&gt;1</b>	
	0400	CTP	Pricing Information	O	1		
	0430	CUR	Currency	O	1		
	0450	PAM	Period Amount	O	10		
	0490	MEA	Measurements	O	40		
	<b>LOOP ID - PID</b>					<b>1000</b>	
	0500	PID	Product/Item Description	O	1		
	0600	MEA	Measurements	O	10		
	0700	PWK	Paperwork	O	25		
	0900	PO4	Item Physical Details	O	>1		
	1000	REF	Reference Identification	O	>1		
	1100	PER	Administrative Communications Contact	O	3		
	<b>LOOP ID - SAC</b>					<b>25</b>	
	1300	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1350	CUR	Currency	O	1		
	1370	CTP	Pricing Information	O	1		

1400	IT8	Conditions of Sale	O	1	
1420	CSH	Sales Requirements	O	>1	
1500	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
1600	DIS	Discount Detail	O	20	
1650	INC	Installment Information	O	1	
1700	TAX	Tax Reference	O	>1	
1800	FOB	F.O.B. Related Instructions	O	>1	
1900	SDQ	Destination Quantity	O	500	
2000	IT3	Additional Item Data	O	5	
2100	DTM	Date/Time Reference	O	10	
2350	TC2	Commodity	O	>1	
2400	TD1	Carrier Details (Quantity and Weight)	O	1	
2500	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
2600	TD3	Carrier Details (Equipment)	O	12	
2700	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
2760	PCT	Percent Amounts	O	>1	
2800	MAN	Marks and Numbers	O	10	
2890	MTX	Text	O	>1	
2900	SPI	Specification Identifier	O	>1	
2910	TXI	Tax Information	O	>1	
2920	CTB	Restrictions/Conditions	O	>1	
LOOP ID - QTY				>1	
2930	QTY	Quantity	O	1	
2940	SI	Service Characteristic Identification	O	>1	
LOOP ID - SCH				200	
2950	SCH	Line Item Schedule	O	1	n3
2960	TD1	Carrier Details (Quantity and Weight)	O	2	
2970	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
2980	TD3	Carrier Details (Equipment)	O	12	
2990	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
3000	REF	Reference Identification	O	>1	
LOOP ID - PKG				200	
3050	PKG	Marking, Packaging, Loading	O	1	
3100	MEA	Measurements	O	>1	
3200	LS	Loop Header	O	1	
LOOP ID - LDT				>1	
3210	LDT	Lead Time	O	1	
3220	QTY	Quantity	O	>1	
3230	MTX	Text	O	>1	
3240	REF	Reference Identification	O	3	
LOOP ID - LM				>1	
3250	LM	Code Source Information	O	1	
3260	LQ	Industry Code	M	>1	
3270	LE	Loop Trailer	O	1	
LOOP ID - N9				1000	
3300	N9	Reference Identification	O	1	
3320	DTM	Date/Time Reference	O	>1	
3350	MEA	Measurements	O	40	

3400	MTX	Text	O	>1
3450	PWK	Paperwork	O	>1
3480	EFI	Electronic Format Identification	O	>1
<b>LOOP ID - N1</b>				<b>200</b>
3500	N1	Name	O	1
3600	N2	Additional Name Information	O	2
3650	IN2	Individual Name Structure Components	O	>1
3700	N3	Address Information	O	2
3800	N4	Geographic Location	O	1
3830	QTY	Quantity	O	>1
3850	NX2	Location ID Component	O	>1
3900	REF	Reference Identification	O	12
4000	PER	Administrative Communications Contact	O	3
4050	SI	Service Characteristic Identification	O	>1
4060	DTM	Date/Time Reference	O	1
4100	FOB	F.O.B. Related Instructions	O	1
4150	SCH	Line Item Schedule	O	200
4200	TD1	Carrier Details (Quantity and Weight)	O	2
4300	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
4400	TD3	Carrier Details (Equipment)	O	12
4500	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
4600	PKG	Marking, Packaging, Loading	O	200
<b>LOOP ID - LDT</b>				<b>&gt;1</b>
4620	LDT	Lead Time	O	1
4640	MAN	Marks and Numbers	O	10
4660	QTY	Quantity	O	5
4680	MTX	Text	O	>1
4690	REF	Reference Identification	O	3
<b>LOOP ID - SLN</b>				<b>1000</b>
4700	SLN	Subline Item Detail	O	1
4750	MTX	Text	O	>1
4800	SI	Service Characteristic Identification	O	>1
4900	PID	Product/Item Description	O	1000
5000	PO3	Additional Item Detail	O	104
5050	TC2	Commodity	O	>1
5130	ADV	Advertising Demographic Information	O	>1
5150	DTM	Date/Time Reference	O	10
5160	CTP	Pricing Information	O	25
5170	PAM	Period Amount	O	10
5180	PO4	Item Physical Details	O	1
5190	TAX	Tax Reference	O	3
<b>LOOP ID - N9</b>				<b>&gt;1</b>
5230	N9	Reference Identification	O	1
5240	DTM	Date/Time Reference	O	>1
5250	MTX	Text	O	>1
<b>LOOP ID - SAC</b>				<b>25</b>
5260	SAC	Service, Promotion, Allowance, or Charge Information	O	1
5270	CUR	Currency	O	1
5280	CTP	Pricing Information	O	1

		LOOP ID - QTY	>1	
5290	QTY	Quantity	O	1
5300	SI	Service Characteristic Identification	O	>1
		LOOP ID - N1	10	
5350	N1	Name	O	1
5400	N2	Additional Name Information	O	2
5450	IN2	Individual Name Structure Components	O	>1
5500	N3	Address Information	O	2
5600	N4	Geographic Location	O	1
5700	NX2	Location ID Component	O	>1
5800	REF	Reference Identification	O	12
5900	PER	Administrative Communications Contact	O	3
5950	SI	Service Characteristic Identification	O	>1
		LOOP ID - AMT	>1	
6000	AMT	Monetary Amount	O	1
6100	REF	Reference Identification	O	1
6120	PCT	Percent Amounts	O	>1
		LOOP ID - LM	>1	
6200	LM	Code Source Information	O	1
6300	LQ	Industry Code	M	>1

### Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - CTT	1			
	0100	CTT	Transaction Totals	O	1	n4
	0200	AMT	Monetary Amount	O	1	n5
M	0300	SE	Transaction Set Trailer	M	1	

### Transaction Set Notes

1. If segment LIN is used, do not use LIN01.
2. PO102 is required.
3. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.
4. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.
5. If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

## **850 Purchase Order - VICS Introduction**

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail industry implementation of the Purchase Order Transaction Set.

Within the retail industry, two distinct methods for ordering goods have been identified. The first type, or “basic”, is the most common, and is used to order goods separately for each location, i.e., one store ordering per PO. The second type, or “spreadsheet”, is utilized to order the same item for multiple locations, i.e., a specific quantity of one item is distributed to multiple locations. The actual quantity distributed to each location need not be the same.

The spreadsheet order usually implies predistribution by the vendor. Orders are packaged for the store and either sent directly to the store or to a central location (distribution center). The basic order can be used in the pre or post distribution environment. In the post distribution environment the buying location is the distribution center. The distribution center allocates each store’s quantity.

The purchase order in its most simplistic form, assumes that the receiver has, most of the general data about the sender and their locations (stores) within their systems. This data includes bill to, ship to, mark for, terms, etc., for each sender location. For each ordering location the receiver of the order knows where to send the goods, where to send the bill, and what terms are to be applied. The sender only needs to inform the receiver of the location ordering the goods, when delivery is expected, and the detail specification for the goods (SKUs), including order quantity for each SKU.

# Data Element 751 – VICS EDI Semi-Custom Product Description Code Matrix

VICS EDI has defined a coding structure to represent variations of the item in a Semi-Custom product environment. This code is for PID04, Data Element 751, however, this code and combinations of, text in PID05, placement location in PID06, and measurement values in additional MEA segments, may be needed to completely describe the product.

The ten (10) position code is structured into four (4) parts as follows:

Part 1	Position 01-02	Product Category Code
Part 2	Position 03-04	Format Option Code
Part 3	Position 05-08	Description Code
Part 4	Position 09-10	Locator Placement Code

Within each part of the code the values are left justified, blank filled. Parts 3 and 4 code values are dependent on the combination of code values in Parts 1 and 2, e.g., specific code values in Parts 3 and 4 may only be used with specific code values in Parts 1 and 2. The complete codes are shown in the Semi-Custom Product Description Code Matrix.

## Part 1 – Product Category Code

The Product Category Code defines the broad product category. Currently there are eleven product categories identified for use within the retail industry.

<b>AT</b>	Automotive Note Used in support and maintenance of older vehicles where exact U.P.C.s., for specific parts, were not assigned.
<b>CB</b>	Cabinets
<b>FC</b>	Floor Coverings
<b>FN</b>	Furniture
<b>FS</b>	Fire Screens
<b>IA</b>	Intimate Apparel
<b>JW</b>	Jewelry
<b>LB</b>	Linens and Bedding
<b>SD</b>	Doors
<b>WC</b>	Window Treatments
<b>WP</b>	Wall Coverings

## **Part 2 Format Option Code**

The Format Option Code defines the use and requirements of Parts 3 and 4 of the Semi-Custom Product Description Code. It informs the receiver what other codes to expect to define the exact product.

- 01** Part 3 of the Semi-Custom Product Description Code required. MEA segment for measurements may be used as required by trading partners.
- 02** Part 3 of the Semi-Custom Product Description Code required.
- 03** Parts 3 and 4 of the Semi-Custom Product Description Code are required. MEA segment for measurements may be used as required by trading partners.
- 04** Parts 3 and 4 of the Semi-Custom Product Description Code are required. MEA segment for measurements may be used as required by trading partners. Additional text description is contained in PID05.

*NOTE: The following Semi-Custom Product Description Code Matrix has been approved, and will be published in the Version 4040 of VICS X12 Guidelines. It does not appear in the VICS 4030 Guidelines.*

## **VICS EDI Semi-Custom Product Description Code Matrix for Optical**

<b><u>Part 01</u></b>	<b><u>Part 02</u></b>	<b><u>Part 03</u></b>	<b><u>Part 04</u></b>	<b><u>Description</u></b>
OP	Optical 03	CLEN		
			BC	Base Curve; actual measurement contained in the MEA segments.
			DI	Diameter; actual measurement contained in the MEA segments.
			SP	Sphere; actual measurement contained in the MEA segments.
			CL	Cylinder; actual measurement contained in the MEA segments.
			AD	Axis Degree; actual measurement contained in the MEA segments.
			TI	Trial Indicator; actual value found in PID08.
			DE	Dot in Eye; actual value found in PID08.
			C1	Curve 1; actual measurement contained in the MEA segments.
			D1	Degree 1; actual measurement contained in the MEA segments.
			C2	Curve 2; actual measurement contained in the MEA segments.
			D2	Degree 2; actual measurement contained in the MEA segments.

<u>Part 01</u>	<u>Part 02</u>	<u>Part 03</u>	<u>Part 04</u>	<u>Description</u>
			VT	Vertex; actual measurement contained in the MEA segments.
			OZ	Optical Zone; actual measurement contained in the MEA segments.
			TK	Thickness; actual measurement contained in the MEA segments.
			TR	Truncation; actual measurement contained in the MEA segments.
			SH	Seg Height; actual measurement contained in the MEA segments.
			SC	Secondary Curves; actual measurement contained in the MEA segments.
			PC	Peripheral Curves; actual measurement contained in the MEA segments.
			LZ	Lenticular Opt Zone; actual measurement contained in the MEA segments.
			ST	Segment Height after Truncation (Y/N); actual value found in PID08.
			PM	Prism; actual measurement contained in the MEA segments.
	04			
		CLN		
			CO	Color Description; found in PID05
			LT	Lens Type; found in PID05
			EI	Right Eye/Left Eye Indicator; found in PID05

# 850 Purchase Order – VICS Guidelines

Functional Group ID=**PO**

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BEG	Beginning Segment for Purchase Order	M	1		
	0400	CUR	Currency	O	1		
	0500	REF	Reference Identification	O	>1		
	0600	PER	Administrative Communications Contact	O	3		
	0700	TAX	Tax Reference	O	>1		
	0800	FOB	F.O.B. Related Instructions	O	>1		
	1100	CSH	Sales Requirements	O	5		
	1150	TC2	Commodity	O	>1		
LOOP ID - SAC						25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1300	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	1500	DTM	Date/Time Reference	O	10		
	1900	PID	Product/Item Description	O	200		
	2100	PWK	Paperwork	O	25		
	2200	PKG	Marking, Packaging, Loading	O	200		
	2400	TD5	Carrier Details (Routing Sequence/Transit Time)	O	>1		
	2500	TD3	Carrier Details (Equipment)	O	12		
	2600	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	2760	PCT	Percent Amounts	O	>1		
	2800	CTB	Restrictions/Conditions	O	5		
LOOP ID - N9						1000	
	2950	N9	Reference Identification	O	1		
	3000	MTX	Text	O	>1		
LOOP ID - N1						200	
	3100	N1	Name	O	1		
	3200	N2	Additional Name Information	O	2		
	3300	N3	Address Information	O	2		
	3400	N4	Geographic Location	O	>1		
	3500	REF	Reference Identification	O	12		
	3600	PER	Administrative Communications Contact	O	>1		
	4100	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		

## Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - PO1						100000	
M	0100	PO1	Baseline Item Data	M	1		n1
LOOP ID - CTP						>1	
	0400	CTP	Pricing Information	O	1		

0430	CUR	Currency	O	1
0490	MEA	Measurements	O	40
LOOP ID - PID				1000
0500	PID	Product/Item Description	O	1
0600	MEA	Measurements	O	10
0700	PWK	Paperwork	O	25
0900	PO4	Item Physical Details	O	>1
LOOP ID - SAC				25
1300	SAC	Service, Promotion, Allowance, or Charge Information	O	1
1350	CUR	Currency	O	1
1370	CTP	Pricing Information	O	1
1500	ITD	Terms of Sale/Deferred Terms of Sale	O	2
1900	SDQ	Destination Quantity	O	500
2100	DTM	Date/Time Reference	O	10
2350	TC2	Commodity	O	>1
2500	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
LOOP ID - PKG				200
3050	PKG	Marking, Packaging, Loading	O	1
LOOP ID - N9				1000
3300	N9	Reference Identification	O	1
LOOP ID - N1				200
3500	N1	Name	O	1
3600	N2	Additional Name Information	O	2
3700	N3	Address Information	O	2
3800	N4	Geographic Location	O	1
3900	REF	Reference Identification	O	12
4000	PER	Administrative Communications Contact	O	3
4060	DTM	Date/Time Reference	O	1
4500	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
LOOP ID - SLN				1000
4700	SLN	Subline Item Detail	O	1
4900	PID	Product/Item Description	O	1000
5050	TC2	Commodity	O	>1
5160	CTP	Pricing Information	O	25
5180	PO4	Item Physical Details	O	1
LOOP ID - SAC				25
5260	SAC	Service, Promotion, Allowance, or Charge Information	O	1
5270	CUR	Currency	O	1
5280	CTP	Pricing Information	O	1

### Summary:

Pos. No.	Seg. ID	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - CTT					1
0100	CTT	O	1		n2
0200	AMT	O	1		n3
M	0300	SE	M	1	Transaction Set Trailer

## Transaction Set Notes

1. PO102 is required.
2. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.
3. If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

# Conventions used in these guidelines

1. Every data element on each segment is listed in the Data Element Summary section of the segment documentation, including unused Elements.
2. Every data element has the ANSI X12 data element ID noted.
3. Every data element has the ANSI X12 data element title noted.
4. Every data element has the ANSI X12 data element attributes noted:
  - 4.1. Data element requirement designation
    - 4.1.1. **Mandatory (M)** This element is required to appear in the segment.
    - 4.1.2. **Optional (O)** The appearance of this data element is at the option of the sending party or is based on the mutual agreement of the interchange parties.
    - 4.1.3. **Relational (X)** Relational conditions may exist between two or more data elements within a segment based on the presence or absence of one of those data elements. The relational condition is displayed under the heading "Syntax Notes."
  - 4.2. Data element type
    - 4.2.1. **Numeric (Nn)** — The numeric type of data element is symbolized by the two-position representation Nn. N indicates a numeric, and n indicates the decimal places to the right of a fixed, implied decimal point. the decimal point is not transmitted in the character stream. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The length of the data element is the number of digits used. The minus sign (-) is not counted when determining the length of the data element value.
    - 4.2.2. **Decimal Number (R)** — The decimal type of data element is symbolized by the representation R. The decimal point is optional for integer values, but required for fractional values. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The minus sign and the decimal point are not counted when determining the length of the data element value.
    - 4.2.3. **Identifier (ID)** — The identifier type of data element is symbolized by the representation ID. An identifier data element must always contain a value from a predefined list of values that is maintained by ASC X12 or other bodies that are recognized by ASC X12. The value is left justified. Trailing spaces should be suppressed.
    - 4.2.4. **String (AN)** — The string type of data element is symbolized by the representation AN. Contents of string type data elements are a sequence of any letters, digits, spaces, and/or special characters and contain at least one non-space character. The significant characters must be left justified. Leading spaces, if used, are assumed to be significant characters. Trailing spaces should be suppressed.
    - 4.2.5. **Date (DT)** — The date type of data element is symbolized by the representation DT. Format for the date type is CCYYMMDD. CC is the two digit Century (00-99). YY is the last two digits of the year (00-99),

MM is the numeric value of the month (01-12), and DD is the numeric value of the day (01-31).

- 4.2.6. **Time (TM)** — The time type is symbolized by the representation TM. Format for this type is expressed in 24-hour clock format, HHMMSSd.d. HH is the numeric expression of the hour (00-23), MM is the numeric expression of the minute (00-59), SS is the numeric expression of the second (00-59), and d.d is the numeric expression of decimal seconds.

4.3. Data element length (minimum/maximum)

5. Data elements utilized by Wal-Mart applications are noted in **bold** type.
6. Data elements ignored by Wal-Mart application are noted in *italicized type*.
7. Every data element utilized by Wal-Mart applications has the ANSI X12 data element purpose noted.
8. ID-type data elements have the list of utilized values noted.
9. **VICS comments relating to segments and data elements are noted in bold text with a shaded background.**
10. **Wal-Mart comments relating to segments and data elements are noted in underlined bold text with a shaded background.**

# Example of Conventions

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	0400
<b>Loop:</b>	N1
<b>Level:</b>	Heading
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>
<b>Notes:</b>	<p><b>There must be at least one occurrence of the N1 segment in the header area to identify the sender of the transaction in text or coded format.</b></p> <p><b><u>This segment will always identify Wal-Mart Stores, Inc. as the sender of the document</u></b></p>

		<b>Data Element Summary</b>			
1	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98	<b>Entity Identifier Code</b>	M ID 2/3	8
2			Code identifying an organizational entity, a physical location, property or an individual		
3			FR Message From		
	N102	93	<b>Name</b>	X AN 1/60	
			Free-form name		
	N103	66	<b>Identification Code Qualifier</b>	X ID 1/2	
			Code designating the system/method of code structure used for Identification Code (67)		
			UL UCC/EAN Location Code		7
			A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system		
5	N104	67	<b>Identification Code</b>	X AN 2/80	
			Code identifying a party or other code		
1	N105	706	<i>Entity Relationship Code</i>	O ID 2/2	
			<i>Code describing entity relationship</i>		
6	N106	98	<i>Entity Identifier Code</i>	O ID 2/3	
			<i>Code identifying an organizational entity, a physical location, property or an individual</i>		

# Change History

<b>Date</b>	<b>Version</b>	<b>Description of Changes</b>
November, 2004	DRAFT 0.1	Draft Version Released
December, 2004	DRAFT 0.2	Minor revisions
February, 2005	Version 1.0	Production version published