

# 850 Purchase Order

ANSI X12-4010

Vendor Implementation Guide

Document Version 1.1

September 2024

# 850 Purchase Order

Functional Group ID=**PO**

## 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.

## 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	010	ST	Transaction Set Header	M	1		
M	020	BEG	Beginning Segment for Purchase Order	M	1		
	050	REF	Reference Identification	O	>1		
	060	PER	Administrative Communications Contact	O	3		
			LOOP ID - SAC			25	
	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
	150	DTM	Date/Time Reference	O	10		
			LOOP ID - AMT			>1	
	287	AMT	Monetary Amount	O	1		
			LOOP ID - N9			1000	
	295	N9	Reference Identification	O	1		
	300	MSG	Message Text	O	1000		
			LOOP ID - N1			200	
	310	N1	Name	O	1		
	330	N3	Address Information	O	2		
	340	N4	Geographic Location	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	010	PO1	Baseline Item Data	M	1		n1
	045	PAM	Period Amount	O	10		
			LOOP ID - PID			1000	
	050	PID	Product/Item Description	O	1		
	090	PO4	Item Physical Details	O	>1		

## Summary:

<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 - CTT			1		
	010	CTT	Transaction Totals	O	1 n2
M	030	SE	Transaction Set Trailer	M	1

### 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.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**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).  
**Comments:**

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 850 Purchase Order	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**Segment:** **BEG** Beginning Segment for Purchase Order  
**Position:** 020  
**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:**

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BEG01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
M	BEG02	92	Purchase Order Type Code	M ID 2/2
			Code specifying the type of Purchase Order	
			SA Stand-alone Order	
M	BEG03	324	Purchase Order Number	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
M	BEG05	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

<b>Segment:</b>	<b>REF</b> Reference Identification
<b>Position:</b>	050
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Notes:</b>	The "CX" instance of the REF Segment will only be used for those trading partners participating in the Pay on Ship/Scan program. Please contact your business SME for additional information about this program.

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b>	M ID 2/3
			Code qualifying the Reference Identification	
			CX Consignment Classification ID	
			VR Vendor ID Number	
			ZZ Mutually Defined	
	REF02	127	<b>Reference Identification</b>	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			When used with the "VR" qualifier, this will hold the Vendor Number assigned by CVS.	
			In regards to the "CX" qualifier, Pay on Ship/Scan program is a special use program and not all partners will be participating. Please contact your business SME if you have additional questions regarding those programs.	
			5 Pay on Ship	
			6 Pay on Scan	
	REF03	352	<b>Description</b>	X AN 1/80
			A free-form description to clarify the related data elements and their content	
			PO Comment – must be reviewed	
			Promotional Data, Seasonal Promotion Code, or any information to better define this order	
			No receiving from mm/dd/yy to mm/dd/yy	

**Segment:** **PER** Administrative Communications Contact  
**Position:** 060  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 3  
**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:**

Data Element Summary				
M	Ref.	Data	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			BD	Buyer Name or Department
	PER02	93	Name	O AN 1/60
			Free-form name	
			Buyer Name	

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 120  
**Loop:** SAC Optional  
**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 SAC13 is present, then at least one of SAC02 or SAC04 is required.
  - 7 If SAC14 is present, then SAC13 is required.
  - 8 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 to further the code in 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.

#### Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		A260 Advertising Allowance	
		C320 Display Allowance	
		F050 Other (See related description)	
		F800 Promotional Allowance	
		F910 Quantity Discount	
		I310 Truckload Discount	
		ZZZZ Mutually Defined	
	SAC03	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	



		ZZ	Mutually Defined		
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>			X AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge			
		ZZ - Mutually Defined			
SAC06	378	<b>Allowance/Charge Percent Qualifier</b>			X ID 1/1
		Code indicating on what basis allowance or charge percent is calculated			
		1	Item List Cost		
SAC07	332	<b>Percent</b>			X R 1/6
		Percent expressed as a percent			
SAC12	331	<b>Allowance or Charge Method of Handling Code</b>			O ID 2/2
		Code indicating method of handling for an allowance or charge			
		01	Bill Back		
		02	Off Invoice		
		06	Charge to be Paid by Customer		
SAC15	352	<b>Description</b>			X AN 1/80
		A free-form description to clarify the related data elements and their content			
		Promo Display Ad Other Quantity Allowance Truckload Carload Backhaul Additional			

<b>Segment:</b>	<b>ITD</b>	<b>Terms of Sale/Deferred Terms of Sale</b>
<b>Position:</b>	130	
<b>Loop:</b>		
<b>Level:</b>	Heading	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	>1	
<b>Purpose:</b>	To specify terms of sale	
<b>Syntax Notes:</b>	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.
<b>Semantic Notes:</b>	1	ITD15 is the percentage applied to a base amount used to determine a late payment charge.
<b>Comments:</b>	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.

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ITD01	336	<b>Terms Type Code</b>	O ID 2/2
		Code identifying type of payment terms	
ITD02	333	<b>Terms Basis Date Code</b>	O ID 1/2
		Code identifying the beginning of the terms period	
		4 Specified Date	
		15 Receipt of Goods	
ITD03	338	<b>Terms Discount Percent</b>	O 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	
ITD05	351	<b>Terms Discount Days Due</b>	X N0 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned	
ITD07	386	<b>Terms Net Days</b>	O N0 1/3
		Number of days until total invoice amount is due (discount not applicable)	
ITD10	389	<b>Deferred Amount Due</b>	X N2 1/10
		Deferred amount due for payment	
		Please Ignore. Will always be a 1.	

**Segment:** **DTM** Date/Time Reference  
**Position:** 150  
**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		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			002 Delivery Requested	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			Delivery by Date(CCYYMMDD)	

**Segment:** **AMT** Monetary Amount  
**Position:** 287  
**Loop:** AMT Optional  
**Level:** Heading  
**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	Amount Qualifier Code Code to qualify amount BAP Total Amount Due	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount Total PO Dollar Amount (Informational only, not required)	M R 1/18

**Segment:** N9 Reference Identification  
**Position:** 295  
**Loop:** N9 Optional  
**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification L1 Letters or Notes	
	N902	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			PO Comments	

**Segment:** **MSG** Message Text  
**Position:** 300  
**Loop:** N9 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1000  
**Purpose:** To provide a free-form format that allows the transmission of text information  
**Syntax Notes:** 1 If MSG03 is present, then MSG02 is required.  
**Semantic Notes:** 1 MSG03 is the number of lines to advance before printing.  
**Comments:** 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.  
2 If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

#### Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MSG01	933	Free-Form Message Text Free-form message text	M AN 1/264

**Segment:** **N1** Name  
**Position:** 310  
**Loop:** N1 Optional  
**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		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		OT Origin Terminal	
		ST Ship To	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		11 Drug Enforcement Administration (DEA)	
		54 Warehouse	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
If N103 = '54' - 4 Character Warehouse Code (See Distribution Center ID Table for Ship-to-location)			
If N103 = '11' - (See DEA Codes Table for Ship-to-location)			
If N101 = 'OT' - (FOB Point- for imports only)			

**Segment:** N3 Address Information  
**Position:** 330  
**Loop:** N1 Optional  
**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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> N301	<u>Element</u> 166	Address Information Address information	M AN 1/55



**Segment:** **N4** Geographic Location  
**Position:** 340  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 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

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	

<b>Segment:</b>	<b>PO1</b>	<b>Baseline Item Data</b>
<b>Position:</b>	010	
<b>Loop:</b>	PO1	Mandatory
<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>		
<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>	

Data Element Summary			
Ref.	Data	Name	Attributes
Des.	Element		
PO102	330	<b>Quantity Ordered</b>	X R 1/15
		Quantity ordered	
		On order Quantity	
PO103	355	<b>Unit or Basis for Measurement Code</b>	O 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 (If Front Store)	
		PC Pieces (If RX)	
		CA Case	
		PC Piece	
PO104	212	<b>Unit Price</b>	X R 1/17
		Price per unit of product, service, commodity, etc.	
		If Front Store – Case Price	
		If RX – Unit Price	
PO106	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		ND National Drug Code (NDC)	
		PI Purchaser's Item Code	
		UD U.P.C./EAN Consumer Package Code (2-5-5)	
		UI U.P.C. Consumer Package Code (1-5-5)	
PO107	234	<b>Product/Service ID</b>	X AN 1/48
		Identifying number for a product or service	
		Item UPC Number or EAN	
		If no UPC is available, will be Purchaser's Item Number (6 characters)	
		If RX – NDC	

<b>PO108</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		UA U.P.C./EAN Case Code (2-5-5)		
<b>PO109</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		Case UPC Code		
<b>PO110</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		PI Purchaser's Item Code		
<b>PO111</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		

**Segment:** **PAM** Period Amount

**Position:** 045

**Loop:** PO1 Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To indicate a quantity, and/or amount for an identified period

**Syntax Notes:**

- 1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
- 2 At least one of PAM02 PAM05 or PAM14 is required.
- 3 If either PAM04 or PAM05 is present, then the other is required.
- 4 If either PAM06 or PAM07 is present, then the other is required.
- 5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
- 6 If PAM07 is present, then PAM06 is required.
- 7 If PAM08 is present, then PAM07 is required.
- 8 If PAM09 is present, then PAM07 is required.
- 9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
- 10 If PAM11 is present, then PAM10 is required.
- 11 If either PAM13 or PAM14 is present, then the other is required.

**Semantic Notes:**

- 1 PAM10, PAM11, or PAM12 are used when two dates are required.
- 2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.

**Comments:**

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
PAM01	673	Quantity Qualifier	X	ID 2/2
		Code specifying the type of quantity		
		01 Discrete Quantity		
PAM02	380	Quantity	X	R 1/15
		Numeric value of quantity		
PAM03	C001	Composite Unit of Measure	X	
		To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	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		
		ZZ Mutually Defined		

<b>Segment:</b>	<b>PID</b>	<b>Product/Item Description</b>
<b>Position:</b>	050	
<b>Loop:</b>	PID	Optional
<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>	

Data Element Summary				
Ref.	Data	Name	Attributes	
Des.	Element			
M	PID01	349 Item Description Type	M	ID 1/1
		Code indicating the format of a description		
		F Free-form		
	PID05	352 Description	X	AN 1/80
		A free-form description to clarify the related data elements and their content		

<b>Segment:</b>	<b>PO4</b> Item Physical Details
<b>Position:</b>	090
<b>Loop:</b>	PO1 Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify the physical qualities, packaging, weights, and dimensions relating to the item
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either PO402 or PO403 is present, then the other is required.</li> <li>2 If PO405 is present, then PO406 is required.</li> <li>3 If either PO406 or PO407 is present, then the other is required.</li> <li>4 If either PO408 or PO409 is present, then the other is required.</li> <li>5 If PO410 is present, then PO413 is required.</li> <li>6 If PO411 is present, then PO413 is required.</li> <li>7 If PO412 is present, then PO413 is required.</li> <li>8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.</li> <li>9 If PO417 is present, then PO416 is required.</li> <li>10 If PO418 is present, then PO404 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.</li> <li>2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.</li> <li>3 PO417 is the ending package identifier in a range of identifiers.</li> <li>4 PO418 is the number of packages in this layer.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".</li> <li>2 PO413 defines the unit of measure for PO410, PO411, and PO412.</li> </ol>

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>PO401</b>	<b>356</b>	<b>Pack</b>	<b>O N0 1/6</b>
The number of inner containers, or number of eaches if there are no inner containers, per outer container			
Case Pack			

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:** CTT Optional  
**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

M	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			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.	
			Example:	
			-.0018 First occurrence of value being hashed.	
			.18 Second occurrence of value being hashed.	
			1.8 Third occurrence of value being hashed.	
			18.01 Fourth occurrence of value being hashed.	
			-----	
			1855 Hash total prior to truncation.	
			855 Hash total after truncation to three-digit field.	

**Segment:** **SE** Transaction Set Trailer  
**Position:** 030  
**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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	



## 850 – Purchase Order Example v4010:

ISA\*00\*                  \*00\*                  \*ZZ\*CVSUAT                  \*01\*TESTASN  
\*241001\*1235\*U\*00401\*000000055\*1\*P\*^~  
GS\*PO\*CVSUAT\*TESTASN\*20241001\*1235\*168\*X\*004010~  
ST\*850\*0001~  
BEG\*00\*SA\*0123456\*\*20240913~  
REF\*VR\*12345~  
REF\*CX\*5~  
PER\*BD\*MARK JONES~  
ITD\*01\*15\*2\*\*45\*\*46\*\*\*100~  
DTM\*002\*20240927~  
AMT\*BAP\*1572~  
N9\*L1\*PO COMMENTS~  
MSG\*THIS PO SUBJECT TO THE TERMS AND CONDITIONS FOUND ON CVS SUPPLIERS WEBSITE~  
N1\*ST\*\*54\*K101~  
N3\*10711 NORTH CONGRESS AVE~  
N4\*KANSAS CITY\*MO\*64153~  
PO1\*\*864\*CA\*1.99\*\*UI\*05042831234\*UA\*005042831234\*PI\*941234~  
PAM\*01\*864\*ZZ~  
PO4\*1~  
CTT\*1\*864~  
SE\*18\*0001~  
GE\*1\*168~  
IEA\*1\*000000055~