

Section 6

Hoses & Couplings



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Hoses & Couplings

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TRANSPORTER® EBONITE™ CORRUGATED TANK TRUCK

The Transporter Ebonite Corrugated Tank Truck hose is recommended for hydrocarbons with aromatic content up to 55% maximum, fats, greases, animal oil, vegetable oil, hydraulic fluid and a wide range of chemicals. This hose features a flat corrugated NBR/PVC cover which is ideal for those applications where flexibility is an issue. The reinforcement of two plies of polyester cord with a dual wire helix enables this hose to be rated at **full vacuum**. Also, this construction allows each size to have a constant working pressure of 150 psi.



Resistance:	
Branding:	Thermoid HBD Industries Inc. Ebonite™ 150 PSI WP Made In USA

- Cover Color:** Black
- Oil Resistance:** High
- Construction:**
 - Tube:** NBR, RMA Class A
 - Cover:** NBR/PVC corrugated, RMA Class B
 - Reinforcement:** 2 plies of polyester cord with a dual wire helix(es) between plies
- Temperature Range:** -30°F to +200°F
-34°C to +93°C
- Packaging:** 100 ft. maximum

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17813045002▲	1	25.40	1.53	38.89	2	150	1.03	2.00	50.80	0.60	0.89
17813046002▲	1-1/4	31.75	1.78	45.24	2	150	1.03	2.50	63.50	0.70	1.04
17813047002	1-1/2	38.10	2.06	52.39	2	150	1.03	3.00	76.20	0.90	1.34
17813048002	2	50.80	2.56	65.09	2	150	1.03	4.50	114.30	1.20	1.79
17813050002	3	76.20	3.56	90.49	2	150	1.03	6.00	152.40	1.80	2.68
17813055002	4	101.60	4.66	118.27	2	150	1.03	8.00	203.20	2.70	4.02

▲ = Make To Order (MTO)

TRANSPORTER® FLEX-DEVIL™

Flex-Devil is a highly flexible, corrugated transfer hose. This hose is made with special rubber compounds, which produce an exceptionally lightweight, flexible hose for use in the transfer of gasoline, petroleum based products and a wide range of oils, and chemicals at temperatures down to -40°F (-40°C). Flex-Devil stays flexible even in extreme temperatures, provides solid working pressure of 150 psi in a wide variety of ID sizes. This hose is rated at **full vacuum** (30" Hg). Flex-Devil is compatible with gasoline grades up to 50% aromatic content and MRBE/unleaded blends up to 15% MTBE. Flex-Devil is lightweight, easy to handle and offers excellent resistance to abrasion, weathering and exposure to oil, fuel and chemicals. Flex-Devil also accepts a range of coupling types, including swaged, crimped, internally expanded and/or banded shank couplings. Please consult coupling manufacturer for specific coupling recommendations and attachment procedures.



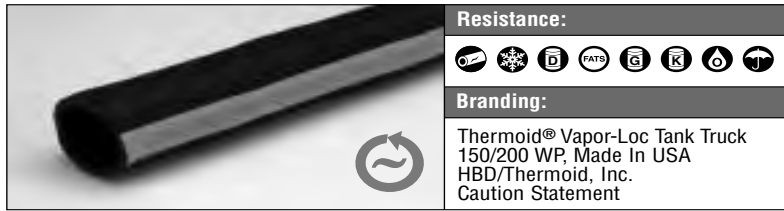
Resistance:	
Branding:	Thermoid/HBD Industries Transporter Flex-Devil 150 PSI WP Made In USA – Caution Statement

- Cover Color:** Red
- Oil Resistance:** High
- Construction:**
 - Tube:** NBR, RMA Class A (low temperature)
 - Cover:** CR, RMA Class B (corrugated)
 - Reinforcement:** Multiple ply synthetic textile cords with dual helix wire
- Temperature Range:** -40°F to +200°F
-40°C to +93°C
- Packaging:** 100 ft. lengths, straight ends only
- Couplings:** Swaged, crimped, internally expanded or banded shank types. Contact coupling manufacturer for proper hose assembly-coupling procedures.

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17814532002	2	50.80	2.43	61.70	2	150	1.03	4.00	101.60	0.90	1.35
17814534002	3	76.20	3.47	88.70	2	150	1.03	6.00	152.40	1.56	2.32
17814536002	4	101.60	4.54	115.30	2	150	1.03	8.00	203.40	2.24	3.34

TRANSPORTER® VAPOR-LOC™

With its unique, multi-layered permeation barrier system, VAPOR-LOC Tank Truck Hose is unlike any other bulk transfer hose product available, today. Through the use of this exclusive VAPOR-LOC manufacturing process, this hose dramatically reduces atmospheric hydrocarbon fuel vapor emissions up to 99%, reduces fuel lost through permeation, virtually eliminates smelly fuel odors and more. Rated at full vacuum, this hose provides a constant working pressure of 150 and/or 200psi. It is lightweight, flexible, handles easily and is ideal for rough, outdoor work conditions. Vapor-loc Tank Truck is recommended for use with most petroleum products, various types of fats, oils, hydraulic fluids and some chemicals



- Size:** 1"- 4" I.D.
- Working Pressure:** 200 psi, Vacuum Rating – Full (30" HG) – 1"-1" I.D.
150 psi, Vacuum Rating – Full (30" HG) – 2"-4" I.D.
- Cover Color:** Black
- Oil Resistance:** High
- Construction:**
 - Tube:** NBR, RMA Class A
 - Cover:** Smooth – NBR/PVC
Corrugated – CR, MSHA
- Reinforcement:** Spiral steel wire helix(es) between synthetic textile plies
- Barrier:** Unique, 3-ply, multi-layer vapor barrier
- Temperature Range:** -30°F to +200°F
-34°C to +93°C
- Couplings:** Swaged, crimped, internally expanded or banded shank types. Consult coupling manufacturer for proper hose assembly-coupling procedures.
- Packaging:** 1"- 4" I.D. – 100 ft. maximum

Transporter VAPOR-LOC Tank Truck – Smooth Cover

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17814811002	1	25.40	1.53	38.86	2	200	1.38	2.50	63.50	0.61	0.91
17814814002	2	50.80	2.54	64.52	2	150	.03	6.00	152.40	1.14	1.69
17814816002	3	76.20	3.60	91.44	2	150	1.03	9.00	228.60	1.89	2.81
17814818002	4	101.60	4.68	118.87	2	150	1.03	12.00	304.80	2.73	4.06

Transporter VAPOR-LOC Tank Truck – Corrugated Cover

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17814712002	2	50.80	2.48	62.99	2	150	1.03	5.00	127.00	1.00	1.49
17814714002	3	76.20	3.53	89.66	2	150	1.03	6.00	152.40	1.69	2.52
17814716002	4	101.60	4.56	116.84	2	150	1.03	8.00	203.20	2.41	3.59

TRANSPORTER® HOT TAR & ASPHALT

Transporter Hot Tar and Asphalt hose has been designed to handle the transfer of hot asphaltic materials between trucks, rail transport cars, storage tanks and disposing units. The specially compounded neoprene tube and cover are exceptionally heat resistant (tube to +350°F) as well as being strong and durable. The spiral synthetic cord and helical wire reinforcement allow this hose to work at 150 psi.



- Cover Color:** Black
- Oil Resistance:** Medium
- Construction:**
 - Tube:** CR, suitable to +350°F
 - Cover:** CR
- Reinforcement:** Spiral synthetic cord with spiral helix(es) inserted
- Temperature Range:** -20°F to +350°F
-29°C to +177°C
- Packaging:** 100 ft. maximum
Minimum order is 1200 ft. per size

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17771515002▲	1-1/2	38.10	2.13	53.98	2	150	1.03	6.00	152.40	1.30	1.93
17771520002	2	50.80	2.63	66.68	2	150	1.03	8.00	203.20	1.50	2.23
17771525002▲	2-1/2	63.50	3.19	80.96	2	150	1.03	10.00	254.00	2.30	3.42
17771530002	3	76.20	3.75	95.25	2	150	1.03	14.00	355.60	2.80	4.17
17771540002▲	4	101.60	4.75	120.65	2	150	1.03	18.00	457.20	4.00	5.95

▲ = Make To Order (MTO)

TRANSPORTER® TYPE 120 DRY CEMENT

Transporter Type 120 Dry Cement hose is recommended for the unloading of dry bulk cement from trailer to storage silo by means of air pressure created in the trailer tank. This hose features a collapsible construction for easier handling and clean-up. The tube compound of SBR/NR blend resists the abrasive action of cement. This hose is also static conductive. The SBR/EPDM cover offers excellent abrasion resistance.



Cover Color: Black
Oil Resistance: Limited
Construction:
Tube: SBR/NR
Cover: SBR/EPDM, 1/16" thick
Reinforcement: Two plies of cord fabric
Temperature Range: -40°F to +160°F
 -40°C to +71°C
Packaging: 100 ft. maximum

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17774454002	4	101.60	4.44	112.71	2	50	0.34	n/a	n/a	1.50	2.23
17774456002	4	101.60	4.56	115.89	2	50	0.34	n/a	n/a	2.00	2.98
17774458002	4	101.60	4.70	119.46	2	50	0.34	n/a	n/a	2.60	3.87

n/a = Not Applicable

Product Number	Tube Thickness (nominal)
17774454002	1/8
17774456002	3/16
17774458002	1/4

TRANSPORTER® HOT AIR BLOWER

Transporter Hot Air Blower hose is designed to handle air supply service up to 150 psi. This hose is also used for the transferring of hot air to tanks on dry bulk material trucks. This hose features an EPDM tube and cover which offers excellent heat resistance. The EPDM cover also stands up to the effects of ozone and weathering. This construction resists customary transport conditions. This hose is rated at **full vacuum**.



Cover Color: Brown
Oil Resistance: Limited
Construction:
Tube: EPDM
Cover: EPDM
Reinforcement: Spiral steel wire helix(es) between synthetic textile plies
Temperature Range: -30°F to +350°F
 -34 C to +177°C
Packaging: 100 ft. maximum

Consult coupling manufacturers for specific coupling recommendations/attachment procedures.

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
17717025002▲	2-1/2	63.50	3.06	77.79	2	150	1.03	7.00	177.80	1.47	2.15
17717030002	3	76.20	3.56	90.49	2	150	1.03	9.00	228.60	1.72	2.49
17717040002▲	4	101.60	4.63	117.48	2	150	1.03	12.00	304.80	2.51	3.64

▲ = Make To Order (MTO)

TRANSPORTER® ULTRA-CHEM™

Transporter Ultra-Chem hose has been engineered to be extremely flexible. This hose will handle 98% of all common industrial chemicals. Ultra-Chem is ideal for pressure, gravity flow and suction service. This hose has been rated at **full vacuum**. The green EPDM cover is abrasion and chemical resistant. This hose can also come with a black EPDM cover.

NOTE: See caution information below regarding chemical application temperatures, working pressure and hose assemblies. Also review Chemical Hose Warnings on pages 29 and 148 in Thermoid Industrial Rubber Products Catalog.



Cover Color: Green
Oil Resistance: High at 70°F, not rated at 140°F
Construction:
Tube: UHMWPE backed with compatible rubber layer
Cover: EPDM
Reinforcement: Multiple synthetic textile cords and a dual wire helix(es).
Temperature Range: For most chemicals: -40°F /-40°C to +250°F/121°C. See caution warnings below and Chemical Resistance Guide (Pages 139-147) in Thermoid's Industrial Rubber Products Catalog.
Packaging: 100 ft. maximum

Product Number	Nominal I.D.		Nominal O.D.		Plies	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
Green											
17709008002	1	25.40	1.47	36.75	2	250	1.72	4.00	101.60	0.53	0.79
17709009002	1-1/4	31.75	1.78	44.50	2	250	1.72	4.00	101.60	0.75	1.12
17709010002	1-1/2	38.10	2.08	52.00	2	250	1.72	4.00	101.60	0.96	1.43
17709012002	2	50.80	2.58	64.50	2	250	1.72	6.00	152.40	1.30	1.93
17709013002	2-1/2	63.50	3.13	78.25	2	200	1.38	8.00	203.20	1.77	2.63
17709014002	3	76.20	3.66	91.50	2	200	1.38	9.00	228.60	2.09	3.11
17709016002	4	101.60	4.70	117.50	2	150	1.03	12.00	304.80	2.92	4.35
17709018002▲	6	152.40	6.90	172.50	4	150	1.03	30.00	762.00	5.77	8.59
Black											
17709300002	1	25.40	1.47	36.75	2	250	1.72	4.00	101.60	0.52	0.77

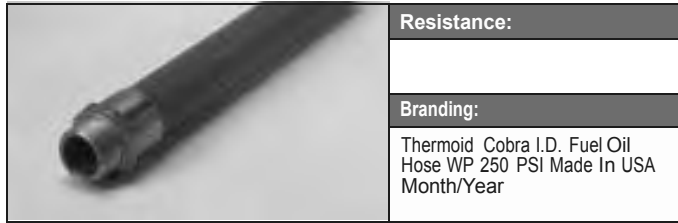
▲ = Make To Order (MTO)

*****Special Pricing on rolls of 100' lengths*****
 Talk to your Werts Welding & Tank Service, Inc.
 sales representative for details.

COBRA™ FUEL OIL DELIVERY

Cobra Fuel Oil Delivery hose is designed for the delivery and transfer of fuels, oils, commercial gasoline, diesel, kerosene and related petroleum-based products for home delivery, marine, commercial and industrial service. It features an NBR/PVC cover with multiple spiral polyester reinforcement. This unique spiral construction adds strength and flexibility to the hose while making it easy to handle and kink resistant. The smooth, durable cover resists oil and abrasion and is less resistant to dragging, making it the driver's choice. This hose provides top performance and offers a constant working pressure of 250 psi in all sizes.

Note: A static wire is included on all sizes as a safety precaution



Resistance:
Branding:
Thermoid Cobra I.D. Fuel Oil Hose WP 250 PSI Made In USA Month/Year

Cover Color: Red
Oil Resistance: High
Construction:
 Tube: NBR, RMA Class A Cover:
 NBR/PVC, RMA Class A
 Reinforcement: High tensile spiral polyester cord
Temperature Range: -40°F to +212°F
 -40°C to +100°C
Packaging: Reels

Reels (Thermocure)

Product Number	Nominal I.D.		Nominal O.D.		Reinforcement Spirals	Working Pressure		Min. Bend Radius		Weight	
	(inches)	(mm)	(inches)	(mm)		(psi)	(Mpa)	(inches)	(mm)	(lb/ft)	(Kg/m)
22564642662	1	25.40	1.50	38.10	4	250	1.72	7.00	177.80	0.47	0.70
22564802662	1-1/4	31.75	1.78	45.24	4	250	1.72	8.75	222.25	0.59	0.88
22564882662	1-3/8	34.93	1.88	47.63	4	250	1.72	9.25	234.95	0.65	0.97
22564962662	1-1/2	38.10	2.09	53.18	4	250	1.72	10.50	266.70	0.80	1.19

Cut and Coupled Lengths

Product Number		Nominal I.D.		Lengths	
Uncoupled	Coupled	(inches)	(mm)	(feet)	(meters)
22564642102	22564642111	1	25.40	100.00	30.48
22564642122	22564642131	1	25.40	125.00	38.10
22564642152	22564642141	1	25.40	150.00	45.72
22564642172	22564642171	1	25.40	175.00	53.34
22564802102	22564802111	1-1/4	31.75	100.00	30.48
22564802122	22564802131	1-1/4	31.75	125.00	38.10
22564802152	22564802141	1-1/4	31.75	150.00	45.72
22584802162	22564802171	1-1/4	31.75	175.00	53.34
22564882102	22564882111	1-3/8	34.93	100.00	30.48
22564882122	22564882131	1-3/8	34.93	125.00	38.10
22564882152	22564882141	1-3/8	34.93	150.00	45.72
22564882162	22564882201	1-3/8	34.93	175.00	53.34
22564962102	22564962111	1-1/2	38.10	100.00	30.48
22564962122	22564962131	1-1/2	38.10	125.00	38.10
22564962152	22564962141	1-1/2	38.10	150.00	45.72
22564962162	22564962171	1-1/2	38.10	175.00	53.34



Red Fuel Oil Delivery Hose (No Static Wire)

Part number	Size I.D.	Length	Configuration	WP / psi
145152	1-1/4"	100 ft.	M x F	250
146682	1-3/8"	50 ft.	M x F	250
146702	1-3/8"	75 ft.	M x F	250
145232	1-3/8"	100 ft.	M x F	250
145242	1-3/8"	125 ft.	M x F	250
146863	1-1/2"	75 ft.	M x F	250
145342	1-1/2"	125 ft.	M x F	250

Note: 1" size delivery hoses also available as a special order item. Custom lengths, different hose end configurations and delivery hoses with a static wire are also available as special order items. Special order items typically take 5-7 working days to receive.

Hose construction: Tube is Nitrile synthetic rubber, cover is red Chemivc smooth synthetic rubber and it has 2 braids of synthetic yarn. Hose is oil, abrasion and ozone resistant.



KANAPOWER ST-120-LT

Tank truck drop hose with grounding wire

Temperature Ranges: -30°F to 140°F

Applications: Tank truck gravity drop hose for such items as gasoline, naphtha, kerosene, light and heavy oil, diesel, and up to 15% ethanol mixture. **Not for Biodiesel.**

Construction: Nitrile rubber, rigid PVC helix, synthetic braiding, smooth bore, static grounding wire, corrugated O.D.

I.D. INCHES	O.D. INCHES	PITCH INCHES	MIN. BENDING RADIUS 72°F, INCHES	WORKING PRESS. 72°F, INCHES	VACUUM RATING 72°F, INCHES	WEIGHT, LBS./FT.	STANDARD LENGTHS, FT
2	2.68	.39	5.0	65	29.8	1.13	60,100
3	3.68	.59	6.0	65	29.8	1.37	60,100
4	4.82	.65	8.0	65	29.8	2.16	60,100



ST-120-VP

Gasoline vapor recovery hose

Temperature Ranges: -40°F to 140°F

Applications: Gasoline vapor recovery hose, Gasoline vapor recovery only, not for use with petroleum liquids.

Construction: Nitrile rubber, rigid PVC helix, smooth bore, corrugated O.D., static grounding wire.

I.D. INCHES	O.D. INCHES	PITCH INCHES	MIN. BENDING RADIUS 72°F, INCHES	WORKING PRESS. 72°F, INCHES	VACUUM RATING 72°F, INCHES	WEIGHT, LBS./FT.	STANDARD LENGTHS, FT
2	2.36	.39	3.0	20	29.8	.61	60,100
3	3.46	.59	2.5	10	29.8	1.00	60,100
4	4.57	.65	5.0	10	29.8	1.70	60,100



#300EPDM

All weather suction and discharge hose

Temperature Ranges: -40°F to 140°F

Applications: Heavy duty liquid suction hose for use in construction dewatering, liquid wastes, septic hauling, septic tank cleaning, agricultural applications and marine use.

Construction: EPDM rubber, polyethylene helix, smooth bore, corrugated. OD

I.D., INCHES	1	1.25	1.5	2	2.5	3	4	6
O.D., INCHES	1.34	1.65	1.84	2.43	2.99	3.52	4.61	6.81
PITCH, INCHES	.30	.33	.35	.39	.56	.59	.65	.87
MINIMUM BENDING RADIUS 72°F, INCHES	1.9	3.2	3.2	5.2	5.6	7.1	11.0	20.0
WORKING PRESSURE 72°F, P.S.I.	50	50	50	50	50	43	38	23
VACUUM RATING 72°F, IN. HG.	29.8	29.8	29.8	29.8	29.8	29.8	29.8	28.0
WEIGHT, LBS./FT.	.23	.34	.40	.67	.92	1.10	1.84	3.07
STANDARD LENGTH, FT	100	100	100	100	100	100	100	60, 100

#ST120UAPDH

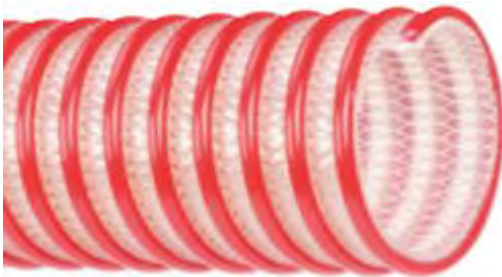
Kanapower BIO - Excellent for Gasolines, BioDiesel and Ethanol

Temperature Ranges: -52°F to 140°F

Applications: All purpose tank truck gravity drop hose for items such as gasoline, ethanol, biodiesel, kerosene and diesel.

Construction: Non-permeable polyurethane inner and outer tube with synthetic braiding, smooth bore, corrugated O.D., PVC helix for easy drag, clear static dissipating tube and multi-strand copper static wire providing maximum protection against static discharge.

Note: Lightweight and flexible even in sub-zero temperatures. Static dissipating polyurethane inner and outer tube provides maximum resistance to gasoline, biodiesel (up to B100 compliant with ASTM D6751), ethanol (up to E85; currently testing E100), kerosene, diesel and ASTM fuel oils. Clear tube allows visual confirmation of flow. Banding coil or banding sleeve must be used for all sizes. Static wire must be properly imbedded during fitting installation and tested to assure proper static grounding of hose to a grounded system.



INSIDE DIA. INCHES	OUTSIDE DIA. INCHES	PITCH INCHES	MIN. BEND RADIUS 72°F, INCHES	WORKING PRESS. 72°F, P.S.I.	VACUUM RATING 72°F, IN HG
3	3.72	0.62	6.3	65	29.8
4	4.81	0.68	7.0	65	29.8



Tigerdrop™ Clear

Drop Hose

Series TDH

Clear - “See-the-flow”



General Applications: Tank truck gravity drop and terminal fuel transfer
Construction: Polyurethane hose with polyester fabric reinforcement and rigid PVC helix
Service Temperature: -40°F (-40°C) to 150°F (+65.5°C)*

- **Biofuel Compatible** – Revolutionary polyurethane compound! Specially designed to handle gasoline, ethanol (up to E98), diesel and biodiesel (up to B100 meeting ASTM D6751 criteria)...and still keeps all the other great features and benefits!
- **Non-permeable polyurethane construction** – won't swell or become stiff like conventional TPR/rubber hoses. Long life reduces operating costs.
- **Lightweight** – much lighter than conventional TPR/ rubber hoses.
- **Superior flexibility** – especially in sub-zero weather!
- **“See-the-flow” construction** – for visual confirmation fuel is flowing.
- **Reinforced tube** – for liquid fuel transfer applications.
- **Embedded copper grounding wire** – safely dissipates static electricity. Physically extract the copper grounding wire from the rigid helix and bond to the metal coupling (or by other means) to ground.†
- **Abrasion resistant helix** – designed to slide easily over rough surfaces and around objects.



Nominal Specifications

Series	ID (in.)	OD [^] (in.)	Working Pressure (psi @ 68° F)	Min. Bending Radius (in. @ 68° F)	Standard Lengths (ft.)	Weight (lbs/ft.)
TDH303	3.03	3.78	65	6	100/20	1.2
TDH404	4.04	4.82	65	8	100/57/20	1.7

* Actual service temperature range is application-dependent ^ OD measured over helix.
 † Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin in this catalog.

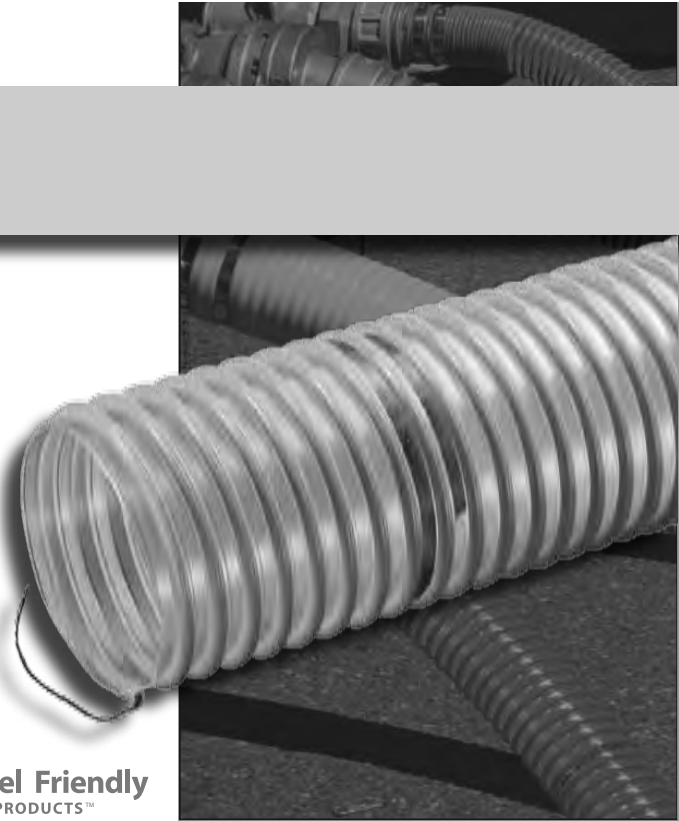
Note: Service life may vary depending on operating conditions and type of fuels being conveyed.

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT PRIOR NOTICE.

KPPCA0409



Tigervapor™ Vapor Recovery Hose Series TV



General Applications: Tank truck and terminal vapor recovery transfer

Construction: Polyurethane hose with rigid PVC helix

Service Temperature: -40°F (-40°C) to 150°F (+65.5°C)*

- **Biofuel Compatible** – Revolutionary polyurethane compound! Specially designed to handle gasoline, ethanol (up to E98), diesel and biodiesel vapors (up to B100 meeting ASTM D6751 criteria)...and still keeps all the other great features and benefits!
- **Non-permeable polyurethane construction** – won't swell or become stiff like conventional TPR/rubber hoses. Long life reduces operating costs.
- **Lightweight** – much lighter than conventional TPR/ rubber hoses.
- **Superior flexibility** – especially in sub-zero weather!
- **“See-through” construction** – for visual confirmation if fuel backs up into the vapor recovery system.
- **Embedded copper grounding wire** – safely dissipates static electricity. Physically extract the copper grounding wire from the rigid helix and bond to the metal coupling (or by other means) to ground.†
- **Abrasion resistant helix** – designed to slide easily over rough surfaces and around objects.



Made In USA

Nominal Specifications

Series	ID (in.)	OD [^] (in.)	Working Pressure (psi @ 68° F)	Min. Bending Radius (in. @ 68° F)	Standard Lengths (ft.)	Weight (lbs/ft.)
TV202	2.02	2.46	17	3	100/60	0.51
TV303	3.03	3.57	11	3.5	100/60	0.78
TV404	4.04	4.61	9	4.5	100/60	1.1

* Actual service temperature range is application-dependent ^ OD measured over helix.

† Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin in this catalog.

Note: Service life may vary depending on operating conditions and type of fuels being conveyed.

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KPPCA0409



Banding Coils — Rigid PVC Coils

- Easy assembly.
- Provides smoother surface for banding behind coupler.
- Packaged singly: One piece to make one complete hose assembly coupled at each end.
- Cut one piece in half into two equal pieces; thread between hose helix.
- Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin in this catalog.

For TDH, TDHBK Drop and Transfer Hoses

Nominal Specifications

Part No.	Fits Hose	Color	Weight (lbs/ea.)
BCCF3	3.03	Clear	0.60
BCCF4	4.04	Clear	0.90

For TV & TVHD Vapor Recovery Hoses

NEW PRODUCT

Nominal Specifications

Part No.	Fits Hose	Color	Weight (lbs/ea.)
BCYL2	2.02	Yellow	0.25
BCYL3	3.03	Yellow	0.45
BCYL4	4.04	Yellow	0.75

Banding Sleeves — Flexible PVC

- Helps prevent overbanding behind the coupler.
- Cut into approximately 12-inch lengths; screw onto hose.
- Refer to Hose Assembly Coupling Installation Suggestions and Technical Bulletin in this catalog.

For TDH & TDHBK Drop and Transfer Hoses

Nominal Specifications

Part No.	Fits Hose	Color	Standard Length (ft.)	Weight (lbs/ea.)
SLV-DRP3X3	3.03	Green	3	3.06
SLV-DRP4X3	4.04	Green	3	4.29

For TV & TVHD Vapor Recovery Hoses

Nominal Specifications

Part No.	Fits Hose	Color	Standard Length (ft.)	Weight (lbs/ft.)
SLV-VAP2X3	2.02	Yellow	3	1.80
SLV-VAP3X3	3.03	Yellow	3	3.09
SLV-VAP4X3	4.04	Yellow	3	4.20



For use with
 **Biofuel Friendly**
 PRODUCTS™  **Made In USA**

NEW COLORS!

For use with
 **Biofuel Friendly**
 PRODUCTS™  **Made In USA**

BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT PRIOR NOTICE.

KPPCA0409



GAMMA-FLEX RED TANK

GENERAL: A world-class hose for tank truck, in-plant and oilfield loading operations requiring a strong yet flexible hose. Red cover for easy identification. Exceptional flexibility (one-to-one ratio) for ease of handling.

TECHNICAL DATA							
TUBE	BLACK, NITRILE, 55% AROMATICS (ORS)						
COVER	RED, NEOPRENE (FLEX CORRUGATED)						
REINFORCEMENT	HIGH TENSILE TIRE CORD PLYS; HELIX WIRE						
SAFETY FACTOR	4:01						
TEMPERATURE	-40°F TO +180°F						
ENDS	SOFT CUFFS ON STANDARD LENGTHS						
BRANDING	GAMMA FLEX SERIES FLEXIBLE PETROLEUM TANK TRUCK HOSE 150PSI WP						
I.D.	PART NUMBER	O.D.	STANDARD LENGTH	WORKING PRES. (PSI)	VACUUM (IN./HG)	BEND RADIUS	LBS./FT.
1-1/2"	RTA15F1-1.5	1-63/4"	100/200'	150	30	1.5"	0.80
2"	RTA15F1-2.0	2-15/32"	100/200'	150	30	2"	1.05
2-1/2"	RTA15F1-2.5	3"	100/200'	150	30	2.5"	1.33
3"	RTA15F1-3.0	3-1/2"	100/200'	150	30	3"	1.64
4"	RTA15F1-4.0	4-9/16"	100/200'	150	30	4"	2.58

SIGMA-VRM

High quality vapor recovery hose for medium duty applications. Specially compounded, non-permeable polyurethane designed to be compatible with gasoline, diesel and most biofuels, such as Ethanol (up to E-98) and biodiesel vapors (B-100 meeting ASTM D-6751). Extremely flexible, even in sub-zero temperatures.

Notes: Specifications at 70°F operation temperature. Sigma-VR-Sleeves, flexible PVC banding sleeves, or Sigma-Coil, banding are recommended to accurately follow assembly procedures.

Caution: Static wire must be properly embedded, grounded and tested prior to use to assure grounding of hose and hose assembly.



TECHNICAL DATA							
TUBE	CLEAR, SPECIALLY COMPOUNDED POLYURETHANE						
REINFORCEMENT	RIGID PVC HELIX (YELLOW)						
TEMPERATURE	40°F TO +150°F (SERVICE TEMPERATURE DEPENDS ON ACTUAL APPLICATION)						
GROUNDING	EMBEDDED ANODIZED COPPER WIRE						
BANDING	SIGMA SERIES - VRM - <ID> - LOT						
COMPARE TO	TIGERVAPOR/ST-120-VP						
I.D.	PART NUMBER	O.D.	STANDARD LENGTH	WORKING PRES. (PSI)	VACUUM (IN./HG)	BEND RADIUS	LBS./FT.
2"	SPVC-VRM-2.0	3"	20'/60'/100'	17	29.8	3"	0.52
3"	SPVC-VRM-3.0	3-1/2"	20'/60'/100'	11		3.5"	0.77
4"	SPVC-VRM-4.0	4-1/2"	20'/60'/100'	9		4.5"	1.11



SIGMA-TDG

Designed to be compatible with gasoline, diesel and most biofuels, such as ethanol (up to E-98) and biodiesel (B-100 meeting ASTM D-6751). Extremely flexible, even in sub-zero temperatures.

TECHNICAL DATA							
TUBE		CLEAR, SPECIALLY COMPOUNDED POLYURETHANE					
REINFORCEMENT		RIGID PVC HELIX (GREEN) WITH SYNTHETIC YARN BRAIDING					
TEMPERATURE		-40°F TO +150°F (SERVICE TEMPERATURE DEPENDS ON ACTUAL APPLICATION)					
GROUNDING		EMBEDDED ANODIZED COPPER WIRE					
BRANDING		SIGMA SERIES - TDG - <ID> - LOT					
COMPARE TO		TDH TIGERDROP CLEAR					
I.D	PART NUMBER	O.D.	STANDARD LENGTH	WORKING PRESS (PSI)	VACUUM (IN./HG)	BEND RADIUS	LBS./FT
3	SPVC-TDG-3.0	3-3/4"	20'/60'/100'	65	29.8	6"	1.21
4	SPVC-TDG-4.0	4-4/5"	20'/60'/100'	65	29.8	8"	1.72



GAMMA-BULK

Soft-wall hose used in transfer of dry materials and slurries. Ideal for dry cement, pebble lime and other abrasive media

TECHNICAL DATA							
TUBE		BLACK, ABRASION-RESISTANT NR-SBR, STATIC-DISSIPATING MATERIALS					
COVER		BLACK, ABRASION-RESISTANT NR-SBR					
REINFORCEMENT		HIGH TENSILE TIRE CORD PLYS					
SAFETY FACTOR		4:01					
TEMPERATURE		-40°F TO +180°F					
BRANDING		DRY CEMENT DELIVERY HOSE STATIC CONDUCTIVE TUEB 75PSI WP					
I.D	PART NUMBER	TUBE GAUGE	O.D	STANDARD LENGTH	WORKING PRES. (PSI)	NUMBER OF PLYS	LBS./FT
4	GBU75S1-4-4	1/8	4-7/16	100	75	2	1.72
	GBU75S1-4-6	3/16	4-5/8				2.20
	GBU75S1-4-8	1/4	4-51/64				2.61
5	GBU75S1-5-4	1/8	5-15/32		75		2.27
	GBU75S1-5-6	3/16	5-5/8				2.75
	GBU75S1-5-8	1/4	5-51/64				3.25



GAMMA-HEAT HOT AIR BLOWER HOSE

Premium-grade materials make for reliable service life, connecting the blower to flow lines on dry-bulk trailers.

TECHNICAL DATA							
TUBE	BLACK, HIGH HEAT-RESISTING EPDM						
COVER	BLACK OR BROWN, HIGH HEAT-RESISTING EPDM (SMOOTH)						
REINFORCEMENT	HIGH TENSILE TIRE CORD PLYS; HELIX WIRE						
SAFETY FACTOR	4:1						
TEMPERATURE	-40°F TO +225 CONTINUOUS; 350°F INTERMITTENT						
BRANDING	HOT AIR BLOWER HOSE 150PSI WP						
I.D	PART NUMBER	O.D	STANDARD LENGTH	WORKING PRES. (PSI)	VACUUM (IN./HG)	BEND RADIUS	LBS./FT
3	GHE15S1-3.0	3-33/64	100'/200'	12	150	30	1.75
4	GHE15S1-4.0	4-9/16	100'/200'	16	150	30	2.40

TEX - F.O.D

Designed for the transfer and delivery of fuels, oil, kerosene, diesel and other petroleum-based products for home, commercial, marine and industrial service. Its synthetic reinforcement allows for extreme flexibility, reduced twisting and ease of handling, while maintaining kink resistance. Drivers will prefer this hose for its abrasion and oil resistance and 250psi working pressures in all sizes.



TECHNICAL DATA					
TUBE	BLACK NBR (ARPM CLASS A)				
COVER	RED NBR (ARPM CLASS A)				
REINFORCEMENT	2 BRAIDED POLYESTER CORDS				
SAFETY FACTOR	4:1				
TEMPERATURE	-40°F TO +180°F				
BRANDING	F.O.D. FUEL OIL DELIVERY HOSE - <ID> - 250PSI WP LOT (WHITE INK LETTERS)				
I.D	PART NUMBER	O.D	STANDARD LENGTH	WORKING PRES. (PSI)	LBS./FT
1	FOD-16-AF	1-32/64	100'/125'/150'/175'	250	0.647
1-1/4	FOD-20-AF	1-51/64	100'/125'/150'/175'	250	0.865
1-3/8	FOD-22-AF	1-56/64	100'/125'/150'/175'	250	0.910
1-1/2	FOD-24-AF	2-6/64	100'/125'/150'/175'	250	1.115

CAM AND GROOVE FITTINGS STANDARD FITTINGS

PART A - Adapter

Adapter X Female NPT Thread



PART F - Adapter

Adapter X Male NPT Thread



PART B - Coupler

Coupler X Male NPT Thread



PART V - Coupler

Dust Cap



PART C - Coupler

Coupler X Hose Shank



PART W - Adapter

Dust Plug



PART D - Coupler

Coupler X Female NPT Thread



PART VL - Coupler

*Dust Cap W/Locking
Cam Arms*



PART E - Adapter

Adapter X Hose Shank



PART H - Elbow Coupler

Coupler X Female NPT Thread

**PART G - Elbow Coupler
W/Check Valve**

Coupler X Female NPT Thread

CAM AND GROOVE FITTINGS SPECIALTY FITTINGS

**PART SA - Spool
Adapter**
Adapter X Adapter



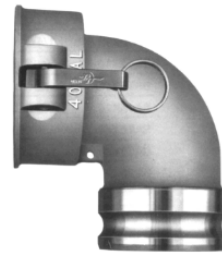
PART C X C
Coupler X Coupler



PART DDL
Coupler X Coupler 90°



PART CAL
Coupler X Adapter 90°



PART CL
Coupler X Hose
Shank 90°



PART LD
Coupler X Female
NPT 90°



CAM AND GROOVE FITTINGS STA-LOCK II PASSIVE LOCK COUPLERS

**PART B
STA-LOK®II**

Coupler X Male NPT



**PART C
STA-LOK®II**

Coupler X Hose Shank



**PART D
STA-LOK®II**

Coupler X Female NPT



**PART V
STA-LOK®II**

Coupler, Dust Cap



**PART CXC
STA-LOK®II**

Coupler X Coupler



STA-LOK II Replacement

Cam Assembly

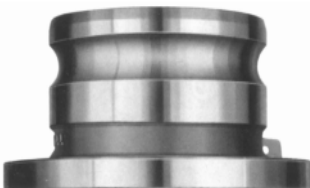
*1 cam arm, pin,
pull ring & lock
plate*



TRUCK FLANGES

TTFA

*Adapter X Tank
Truck Flange*



TTFC

*Coupler X Tank
Truck Flange*



TTF40A-15

*4" Tank Truck
Flange X 15°
4" Adapter*



****All Tank Truck Flanges meet
TTMA specifications**

CAM & GROOVE FITTINGS PETROLEUM APPLICATIONS

PART CXASP

Coupler X Adapter With Pushrod



PART CSP

**Coupler X Shank
With Pushrod**



REDUCER FITTINGS

Part A

Adapter X Female NPT



Part B

Coupler X Male NPT



Part C

Coupler X Hose Shank



Part D

Coupler X Female NPT



Part E

Adapter X Hose Shank



Part F

Adapter X Male NPT



Accessories

ACCESSORIES



Gaskets

Coupling Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"
Part No. BUNA N - STANDARD	B-05-Y	B01	B02	B03	B04	B05	B06	B07	B08	B09	B010	B011	B012
Part No. BUNA - FUEL RESIST.		B01F	B02F	B03F	B04F	B05F	B06F	B07F	B08F	B09F	B010F		
Part No. NEOPRENE	N-05-Y	N01	N02	N03	N04	N05	N06	N07	N08	N09	N010	N011	
Part No. VITON	V-05-Y	V01	V02	V03	V04	V05	V06	V07	V08	V09	V010	V011	
Part No. THIOKOL		TH1	TH2	TH3	TH4	TH5	TH6	TH7	TH8				
Part No. WHITE NITRILE - FOOD GRADE	NW-05-Y	NW1	NW2	NW3	NW4	NW5	NW6	NW7	NW8	NW9	NW10	NW11	
Part No. TEFLON WITH NEOPRENE FILLER	TOFN-05-Y	TOFN1	TOFN2	TOFN3	TOFN4	TOFN5	TOFN6	TOFN7	TOFN8		TOFN10		
Part No. TEFLON WITH BUNA FILLER	TOFB-05-Y	TOFB1	TOFB2	TOFB3	TOFB4	TOFB5	TOFB6	TOFB7	TOFB8				
Part No. TEFLON WITH VITON FILLER	TOFV-05-Y	TOFV1	TOFV2	TOFV3	TOFV4	TOFV5	TOFV6	TOFV7	TOFV8				
Part No. TEFLON ENCAPSU- LATED SILICONE		TOCS1	TOCS2	TOCS3	TOCS4	TOCS5	TOCS6	TOCS7	TOCS8				
Part No. TEFLON ENCAPSU- LATED VITON		TOCV1	TOCV2	TOCV3	TOCV4	TOCV5	TOCV6	TOCV7					
Part No. BUNA N 5/16 THICK			B10YST		B15YST	B20YST	B25YST	B30YST	B40YST		B60YST		
Part No. NEOPRENE 5/16 THICK						N20YST		N30YST	N40YST				
Part No. SILICONE	S-05-Y	SO1	SO2	SO3	SO4	SO5	SO6	SO7	SO8			SO11	
Part No. HYPALON		HY1	HY2	HY3	HY4	HY5	HY6	HY7	HY8		HY10		
Part No. EPDM	EPT-05-Y	EPT1	EPT2	EPT3	EPT4	EPT5	EPT6	EPT7	EPT8	EPT9	EPT10		
Part No. BUNA N-HOT OIL					B04X	B05X		B07X	B08X		B010X		
Part No. BUNA N-ASY for NPSH Thread					B15ASY	B20ASY		B30ASY	B40ASY	B50ASY	B60ASY	B80ASY	
Part No. WHITE NITRILE -ASY for NPSH Thread								W30ASY	W40ASY	W50ASY	W60ASY		

Accessories

Cam Assemblies

Standard Cam Assemblies

HB - HBS - HS

All cam assemblies include one cam arm, one pin and one pull ring.



HB Cam Arm Assembly Bronze Forging

Part No.	Coupling Size
HB10	1/2 & 3/4
HB11	1
HB12	1 1/4
HB15	1 1/2
HB20/25	2-2 1/2
HB30/40/50	3-4-5
HB60/80/100	6-8-10
HB100	10

HBS Cam Arm Assembly Sintered Stainless Steel

Part No.	Coupling Size
HBS10	1/2 & 3/4
HBS11	1
HBS12	1 1/4
HBS15	1 1/2
HBS20/25	2-2 1/2
HBS30/40/50	3-4-5

HS Cam Arm Assembly Investment Cast Stainless Steel

Part No.	Coupling Size
HS10	1/2 & 3/4
HS11	1
HS12	1 1/4
HS15	1 1/2
HS20/25	2-2 1/2
HS30/40/50	3-4-5
HS60/80/100	6-8-10

All Cam Arm Assemblies include one cam arm, one pin, and one ring.

STA-LOK®II

Replacement Cam Assembly

1 cam arm, pin, pull ring and lock plate

Part No.
*SLS10
*SLS12
*SLS15
*SLS20/25
*SLS30/40/50
SLB30/40/50 Sintered Bronze
SLB60 Forged Bronze

*All stainless steel construction.

Security Chains

Stainless Steel Chain
w/Hooks or Rings

Part No.	8" long	12" long
S51		
S52		

Brass Chain
w/Hooks or Rings

Part No.	6" long	12" long
C51		
C52		

Please specify hooks or rings when ordering.



PX Paddle Handle Assembly



Part No.	Coupling Size	CAST BRASS
PX-34	3-4-5	
PX-60	6-8-10	

Paddle Handle Assembly includes one cam arm and one pin.

XL Locking Cam Assembly

Part No.	Coupling Size
20/25XL	2-2 1/2
30XL	3
40XL	4
50XL	5
60XL	6

Cam Pins

Part No.	3/4"	1"	1 1/4"	1 1/2"	2-2 1/2"	3-4-5"	6-8"
STAINLESS STEEL							
ZINC PLATED STEEL							

Pull Rings

Small Rings For Parts
Sizes 1/2 - 2 1/2

ZINC PLATED	STAINLESS STEEL

Large Rings For Parts
Sizes 3" - 12"

ZINC PLATED	STAINLESS STEEL

Rings are sold in bags of 10.
Pricing is per piece.
Bulk packaging is available.



SAFETY BUMPS

An alternative choice to the traditional cam and groove caps and plugs, providing a comfortable handle for the driver's hand and a "bump" that extends beyond the hose fittings and ears, protecting them from damage. Safety Bumps are available in a hazardous/petroleum configuration (black poly) with an antistatic additive, a food grade certified composite (white) and a septic configuration (blue), all made from a glass-filled composite.

SAFETY BUMPS

PART NUMBER	SIZE	DESCRIPTION	COLOR	MATERIAL
77003	2	SAFETY BUMP CAP	BLACK	ANTI-STATIC POLY
77001	2	SAFETY BUMP PLUG	BLACK	ANTI-STATIC POLY
77007	3	SAFETY BUMP CAP	BLACK	ANTI-STATIC POLY
77005	3	SAFETY BUMP PLUG	BLACK	ANTI-STATIC POLY
77011	4	SAFETY BUMP CAP	BLACK	ANTI-STATIC POLY
77006	4	SAFETY BUMP PLUG	BLACK	ANTI-STATIC POLY
77002	2	SAFETY BUMP PLUG	WHITE	FOOD GRADE POLY
77017	2	SAFETY BUMP T-LOCK CAP	WHITE	FOOD GRADE POLY
77008	3	SAFETY BUMP CAP	WHITE	FOOD GRADE POLY
77006	3	SAFETY BUMP PLUG	WHITE	FOOD GRADE POLY
77012	4	SAFETY BUMP CAP	WHITE	FOOD GRADE POLY
77010	4	SAFETY BUMP PLUG	WHITE	FOOD GRADE POLY
77019	4	SAFETY BUMP T-LOCK CAP	WHITE	FOOD GRADE POLY



SAFETY LOCKS

Safety Lock patent pending, is an alternative product to the Hook & Loop Fastener Straps with an easy-to-install and easy-to-remove, heavy duty "clip" that clicks into place over the ears.

SAFETY LOCK

PART NUMBER	SIZE	DESCRIPTION
SL-2	2	2" SAFETY LOCK
SL-3	3	3" SAFETY LOCK
SL-4	4	4" SAFETY LOCK



VELCRO STRAPS

VELCRO STRAPS

PART NUMBER	SIZE	DESCRIPTION
2VELSTRAP	2"-4"	ADJUSTABLE HOSE STRAP



Polypropylene Cam Lever Couplings



FEATURES

- Stainless steel rings, arms & pins
- Most complete line of polypropylene couplings available.
- Versatile — interchangeable with all types of cam lever couplers.
- Precision molded — insures a uniform and accurate fit.
- Durable — Polypropylene is glass filled for rugged strength and durability.
- Smooth operating — finger rings are designed for easy opening of cam levers.
- Complete series of 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3" and 4" NPT thread. BSP threads available 1" - 3" sizes
- Operating conditions:
 - 3/8" thru 2" — 100 P.S.I. at 0°F; 125 P.S.I. at 70°F; 70 P.S.I. at 150°F.
 - 2 1/2", 3" & 4" Cap-50 P.S.I. Couplings 75 P.S.I. max.
- Economical and superior in performance.
- Standard with EPDM gaskets. Buna "N", and Viton® also available.

NOTE: BSP threads available 1" through 3" sizes. Add "B" to end of part number

WARNING: Couplings should not be operated under pressure or with liquid in the line.



11" Poly Lanyard

PART NO.	DESCRIPTION
V20207	11" Polyurethane Rubber Lanyard

ITEM	DESCRIPTION	SIZE AND PART NUMBER										
		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2" x 1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	Male Adapter — Female Thread		75A1/2	75A3/4	100A	125A	150125A	150A	200A		300A	400A
B	Female Coupler — Male Thread		75B1/2	75B3/4	100B	125B	150125B	150BSH	200BSH		300B	400B
C	Female Coupler — Hose Shank		050C	075C	100C	125C	150125C	150C	200C		300C	400C
D	Female Coupler — Female Thread	075D3/8	050D	075D	100D	125D	150125D	150D	200D		300D	400D
E	Male Adapter — Hose Shank		050E	075E	100E	125E	150125E	150E	200E		300E	400E
F	Male Adapter — Male Thread		050F	075F	100F	125F	150125F	150F	200F		300F	400F
PL	Plug for Female Coupler		75PL	75PL	100125PL	100125PL	150PL	150PL	200PL	250PL	300PL	400PL
CAP	Cap for Male Adapter		075CAP	075CAP	100125CAP	100125CAP	150CAP	150CAP	200CAP****	250CAP	300CAP	400CAP

Vapor Recovery Couplings

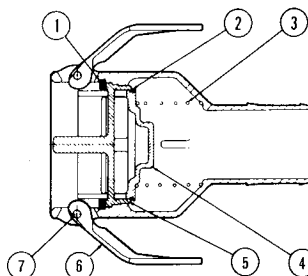
Vapor recovery couplings are specifically designed to connect to and activate vapor recovery fittings such as the 611T and the 633LVH. The poppeted models are designed to keep vapors in the vapor return hose and minimize releases to the atmosphere. In many areas this "check valve" feature is required by law.

633CPP (4" X 4", 4" X 3")

Features:

- Similar to the 633CPV, except contains a Buna-N seal on the check valve and it includes a probe to open the poppet on the 633LVH.
- Size: 4" x 3" and 4" x 4".

Key	Part No.	Description
1	H-8945-M	Gasket
2	H-7408-M	O-Ring
3	H-9110-M	Spring
4	C-2844-AH	Poppet
5	C-2843-AH	Guide Ring
6	D-272-B	Cam Arm (2)
7	H-9771-RE	Pin (2)

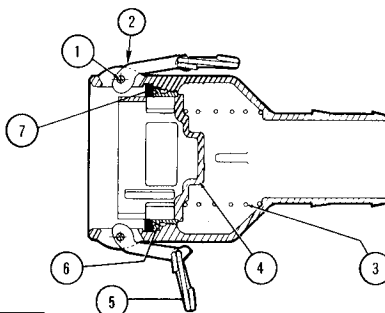


633CPV

Features:

- This poppeted hose shank coupler acts as a check valve until connected to the transport vapor recovery adaptor.
- It has metal seats and is designed to mate to a 633A-4" Adaptor.
- Size: 4" x 3".

Key	Part No.	Description
1	H-9771-RE	Pin (2)
2	D-10172-M	Cam Arm (2)
3	H-9110-M	Spring
4	C-2808-AH	Poppet
5	H-20550-M	Finger Ring (2)
6	H-8942-RAH	Guide Ring
7	H-8945-M	Gasket

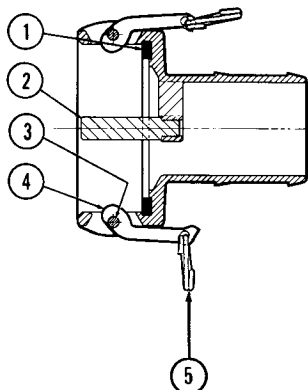


633CV (4" x 4", 4" x 3", 3" x 3")

Features:

- Hose shank coupler, with probe that actuates the poppet in a 633LVH, 611T or 633FPV vapor adaptor.
- Size: 3" x 3", 4" x 4", and 4" x 3".

Key	Part No.	Description
1	H-20546-M	Gasket (3" x 3")
1	H-20547-M	Gasket (4" x 4" & 4" x 3")
2	H-8939-RA	Probe (3" x 3")
2	H-8402-RA	Probe (4" x 4" & 4" x 3")
3	H-9771-RE	Pin (2)
4	D-10172-M	Cam Arm (2)
5	H-20550-M	Ring (2)



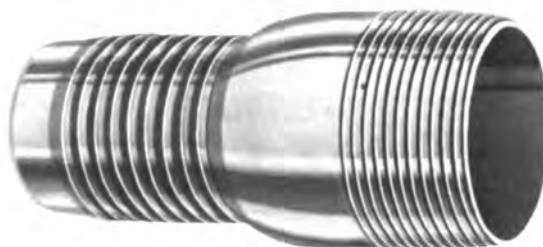
VAPOR FITTINGS, COUPLINGS AND CAPS

633CPP,

633CPV,

633CV





COMBINATION NIPPLES

(HOSE SHANK X MALE NPT THREAD)

SIZE	PLATED STEEL	ALUMINUM
1/2"	PTCN50	PTCN50AL
3/4"	PTCN75	PTCN75AL
3/4" X 1/2"	PTCN75X50	PTCN75X50AL
3/4" X 1"	PTCN75X100	PTCN75X100AL
1"	PTCN100	PTCN100AL
1-1/4"	PTCN125	PTCN125AL
1-1/4" X 1-1/2"	PTCN125X150	PTCN125X150AL
1-1/2"	PTCN150	PTCN150AL
1-1/2" X 2"	PTCN150X200	PTCN150X200AL
2"	PTCN200	PTCN200AL
2" X 1-1/2"	PTCN200X150	PTCN200X150AL
2-1/2"	PTCN250	PTCN250AL
2-1/2" X 2"	PTCN250X200	PTCN250X200AL
3"	PTCN300	PTCN300AL
3" X 4"	PTCN300X400	PTCN300X400AL
4"	PTCN400	PTCN400AL
5"	PTCN500	PTCN500AL
6"	PTCN600	PTCN600AL
8"	PTCN800	PTCN800AL
10"	PTCN1000	PTCN1000AL
12"	PTCN1200	PTCN1200AL

BAND-IT®

THE CLAMPING EXPERTS



Band, Buckles and Tools



BAND-IT Band - Now with EASY SCALE imprint

100 Ft. Per Roll (30.5M)

Type 201 Stainless Steel

Cat. No.	UIC No.	Width		Thickness		Weight	
		Inches	mm	Inches	mm	Lbs	Kg
C202	13202	¼	6.35	.020	.51	1.7	.9
C203	13203	⅜	9.53	.025	.63	3.2	1.6
C204	13204	½	12.70	.030	.76	5.1	2.4
C205	13205	⅝	15.88	.030	.76	6.4	3.0
C206	13206	¾	19.05	.030	.76	7.7	3.6



BAND-IT Buckles

Package Quantity — 100

Type 201 Stainless Steel

Cat. No.	UIC No.	Width		Weight	
		Inches	mm	Lbs	Kg
C252*	13252	¼	6.35	.3	.1
C253	13253	⅜	9.53	.8	.4
C254	13254	½	12.70	2.1	1.0
C255	13255	⅝	15.88	2.4	1.1
C256	13256	¾	19.05	3.7	1.7

*Free-End clip design.



BAND-IT Tool

A drop forged tool with tensioning capability of over 2,400 lbs. and a built-in cutter. New improved features include: • A spring loaded gripper lever for improved band tensioning • A friction held cutoff lever with plastic grip for easier operation • A blue, epoxy powder coated finish virtually impervious to impact, chemicals and corrosive elements • A spin handle retaining ring to keep parts intact. The BAND-IT Tool is used to apply BAND-IT Bands and Buckles, strapping and Free-End clamps.

The BAND-IT Tool

Cat. No.	UIC No.	Description
C001	13001	The BAND-IT Tool Pkg Qty 1 Weight 4.4 Lbs 2.0 Kg



Center Punch Tool



Center Punch Tool — T300

Center Punch Tools

These ratchet action tensioning tools are for applying Center Punch and Center Punch Open-End clamps with a center punch lock.

Center Punch Tools

Cat. No.	UIC No.	Description	Weight		Pkg Qty
			Lbs	Kg	
T300	34300	For 5/8" (15.88mm) Wide Clamps	3.15	1.5	1



Center Punch Clamps

BAND-IT® CP series center punch clamps are available in 201 stainless steel or heat treated galvanized carbon steel. CP clamps are locked with a standard conical punch, ensuring a strong, powerful lock for reliable and consistent clamping.

Both 201 stainless steel and galvanized carbon steel center punch clamps are manufactured with 201 stainless steel buckles to provide maximum locking strength.

Center Punch Clamps (CP Series)

Cat. No.	UIC No.	Clamp I.D.		Band Width		Pkg. Qty.	Weight	
		Inches	mm	Inches	mm		Lbs.	Kg.
Type 201 Stainless Steel				3/8" wide clamp — .025" thick			(.635 mm)	
				5/8" wide clamp — .025" thick			(.635 mm)	
CP3S	37003	1 1/16	20	3/8	9.5	100	3.6	1.6
CP311S	37311	1 3/8	35	3/8	9.5	100	4.6	2.1
CP4S	37004	1	25	5/8	16	100	8.3	3.8
CP5S	37005	1 1/4	32	5/8	16	100	8.7	4.0
CP6S	37006	1 1/2	38	5/8	16	100	9.7	4.4
CP7S	37007	1 3/4	44	5/8	16	100	10.6	4.8
CP8S	37008	2	51	5/8	16	100	11.5	5.2
CP9S	37009	2 1/4	57	5/8	16	100	12.6	5.7
CP10S	37010	2 1/2	64	5/8	16	50	6.8	3.1
CP11S	37011	2 3/4	70	5/8	16	50	7.3	3.3
CP12S	37012	3	76	5/8	16	50	7.7	3.5
CP14S	37014	3 1/2	89	5/8	16	50	8.7	4.0
CP16S	37016	4	102	5/8	16	25	4.9	2.2
CP18S	37018	4 1/2	114	5/8	16	25	5.5	2.5
CP20S	37020	5	127	5/8	16	25	5.9	2.7
CP24S	37024	6	152	5/8	16	25	6.8	3.1
CP28S	37028	7	178	5/8	16	25	7.4	3.4
CP32S	37032	8	203	5/8	16	25	8.2	3.7