

Sampling of Petroleum and Petroleum Products and LP Gases

Sampling of Petroleum and Petroleum Products Sampling Liquefied Petroleum (LP) Gases

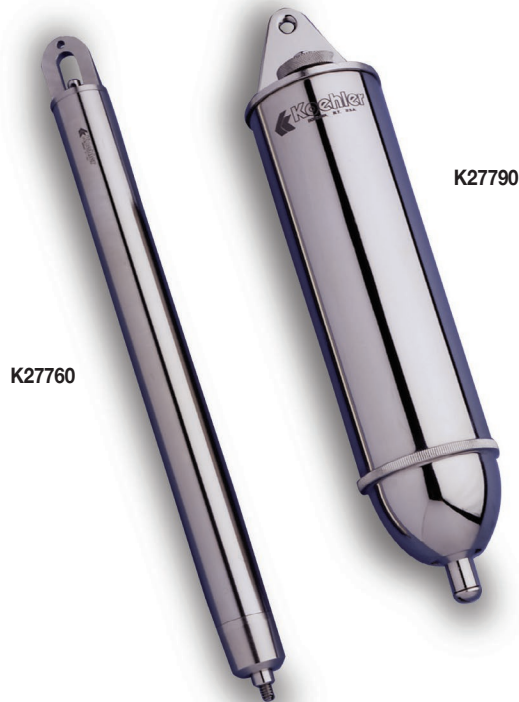
test method standards

All samplers conform to ASTM D4057 (formerly ASTM D270), D6074 or ASTM D1265 specifications.

sample thief (bacon bomb)

- Obtains bottom samples or samples from any level
- Four different capacities
- Plated brass, stainless steel or acrylic construction
- Standard Viton O-ring seal
- Optional metal-to-metal seal

Obtains samples from storage tanks, tank cars and drums. When the thief strikes the bottom of the tank, a plunger assembly opens to admit the sample. The plunger closes again when the bomb is withdrawn, forming a tight seal. Samples can be taken at any depth with the use of a secondary trip line, or extension rods may be added for obtaining samples at levels of up to 18”(46cm) off the bottom. Equipped with plunger locking cam for tight closure during transport (except for 4 oz 1 1/8” dia. model). Special models include a 4 oz (118mL) ‘pencil’ model for sampling through small diameter pipes and openings, and clear acrylic samplers with plated brass plunger and end pieces. Modified samplers can be supplied for special applications – we invite your inquiries.



specifications and ordering information

catalog no.	capacity oz(mL)	Construction	Seal	Outside Diameter in (cm)	Overall Length in (cm)	Shipping Weight lbs (kg)
K27700	32 (946)	plated brass	Viton O-ring	3 3/8 (8.6)	15 5/32 (38.5)	13 (5.9)
K27701	32 (946)	stainless steel	Viton O-ring	3 3/8 (8.6)	15 5/32 (38.5)	13 (5.9)
K27790	16 (473)	plated brass	Viton O-ring	2 3/4 (7)	12 1/32 (30.6)	9 (4.1)
K27795	16 (473)	plated brass	Metal Seat	2 3/4 (7)	12 1/32 (30.6)	9 (4.1)
K27791	16 (473)	stainless steel	Viton O-ring	2 3/4 (7)	12 1/32 (30.6)	8 (3.6)
K27792	16 (473)	acrylic	Viton O-ring	2 3/4 (7)	12 1/32 (30.6)	8 (3.6)
K27780	8 (237)	plated brass	Viton O-ring	2 5/16 (5.9)	10 5/32 (25.8)	5 (2.3)
K27785	8 (237)	plated brass	Metal Seat	2 5/16 (5.9)	10 5/32 (25.8)	5 (2.3)
K27781	8 (237)	stainless steel	Viton O-ring	2 5/16 (5.9)	10 5/32 (25.8)	5 (2.3)
K27782	8 (237)	acrylic	Viton O-ring	2 5/16 (5.9)	10 5/32 (25.8)	5 (2.3)
K27770	4 (118)	plated brass	Viton O-ring	1 7/8 (4.7)	9 1 1/16 (24.6)	4 (1.8)
K27771	4 (118)	stainless steel	Viton O-ring	1 7/8 (4.7)	9 1 1/16 (24.6)	4 (1.8)
K27772	4 (118)	plexiglass	Buna N O-ring	1 5/8 (4.01)	9 1 1/16 (24.6)	3 (1.4)
K27760	4 (118)	plated brass	Viton O-ring	1 1/8 (2.8)	13 1/4 (33.7)	3 (1.4)
K27761	4 (118)	stainless steel	Viton O-ring	1 1/8 (2.8)	13 1/4 (33.7)	3 (1.4)
K27762	4 (118)	acrylic	Viton O-ring	1 1/8 (2.8)	13 1/4 (33.7)	3 (1.4)

sample thief extension rods

Installs in sample thief plunger assembly. Stainless steel with threaded end.

ordering information

catalog no.	description
K277-EXT1	1 (2.5)
K277-EXT2	2 (5.1)
K277-EXT3	3 (7.6)
K277-EXT6	6 (15.2)
K277-EXT12	12 (30.5)
K277-EXT18	18 (45.7)

catalog no.	description
K277C-EXT1	1 (2.5)
K277C-EXT2	2 (5.1)
K277C-EXT3	3 (7.6)
K277C-EXT6	6 (15.2)
K277C-EXT12	12 (30.5)
K277C-EXT18	18 (45.7)

all-levels sample thief

Similar to the standard 16 oz (473mL) Sample Thief (Bacon Bomb), but equipped with an adjustable needle valve opening instead of a plunger to control rate of flow during ‘all-levels’ and ‘running’ sampling from storage tanks. Plated brass construction.

ordering information

catalog no.	description
K27800	All-Levels Sample Thief

adjustable-levels sample thief

Takes samples at depths up to 12” (30.5cm) from bottom. Similar to the standard 16 oz (473mL) Sample Thief (Bacon Bomb), but with built-in graduated extension rod adjustable between 0-12” (30.5cm). Plated brass construction.

ordering information

catalog no.	description
K27900	Adjustable-Levels Sample Thief



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Email: sales@koehlerinstrument.com www.koehlerinstrument.com

Sampling of Petroleum and Petroleum Products and LPG

drum thief (sampling tube)

- Choice of plated brass or stainless steel construction

For tube sampling from barrels and drums. Takes bottom samples or all-levels samples. 40" Long x 1/4" dia. (102x3.2cm). Maximum sample capacity of 24 oz (710mL). Shipping Weight: 6 lbs (2.7kg).

ordering information

catalog no.	description
K27400	Drum Thief, plated brass
K27401	Drum Thief, stainless steel

weighted beaker

- Capacity 32 oz. (946mL)
- Choice of 3/4" or 1 1/2" (19 or 38mm) opening

For beaker sampling from tank cars, tank trucks, shore tanks, ship tanks and barge tanks. Copper or stainless steel construction with weighted bottom. Includes handle and chained cork. Takes all level samples, running samples, and top, upper, middle, lower and outlet samples. Select 3/4" (19mm) opening for light crude oils, light lubricating oils, kerosenes, gasolines, transparent gas oils, diesel fuels, and distillates, or 1 1/2" (38mm) for heavy crude and fuel oils, heavy lubricating oils and nontransparent gas oils. Shipping weight: 6 lbs (2.7kg).

ordering information

catalog no.	description
K27600	Weighted Copper Beaker, with 3/4" opening
K27610	Weighted Copper Beaker, with 1 1/2" opening
K27601	Weighted Stainless Steel Beaker, with 3/4" opening



K27400
Drum Thief

K27600
Weighted Beaker



LPG sample containers

- Two-valve type with 20% outage tube
- Built-in pressure relief valve
- Conforming to ASTM D1265 and GPA 2140 specifications

Welded stainless steel cylinders for obtaining representative samples of liquefied petroleum (LP) gases. Two-valve type (1/4 IPS), with 20% outage tube and built-in pressure relief valve factory preset between 540 to 600psi (38-42 kg/cm2).

ordering information

catalog no.	description
K27851	LPG Sample Cylinder, 150mL
K27852	LPG Sample Cylinder, 300mL
K27853	LPG Sample Cylinder, 500mL
K27854	LPG Sample Cylinder, 1000mL
K27856	LPG Sample Cylinder, 3000mL



K27851 Series LPG Sample Cylinder

core-type sampling thief (Tulsa oil thief)

- Obtains bottom samples or samples from any level
- Butterfly valve on bottom for easy sampling
- Stainless steel and brass construction
- Three Petcocks for draining at different levels

The K28100, Core-Type Sampling Thief is used to manually obtain samples of a liquid, semi liquid or solid state whose vapor pressure at ambient conditions is below 101kPa (crude oil, etc.)

ordering information

catalog no.	description
K28100	Core-Type Sampling Thief

specifications

Conforms to the specifications of: ASTM D4057
Capacity: 33oz.
Empty Weight: 6.187 lbs.
Sample Container Material: Polycarbonate
Markings: Every inch from 3" to 14"
Distance from tank bottom to inlet valve: 1.729"
Max height: 21"
Max length: 4.7"
Max width: 4.2"