

YOU'RE

Covered





WITH KNAPPCO, YOU'RE

Covered

**A commitment to quality.
A promise of unmatched
customer service.**

What's the difference between a supplier and a partner?

Do the businesses you depend on for industrial components exceed your expectations? Do they listen? Do they innovate on your behalf? Do they deliver more than just the component? Do they deliver true value and support?

Do they commit to your business as if it were their own?

One thing we've learned from our first 50 years of business is that, in our field of industrial component manufacturing, the difference between being just another supplier and being a true partner is measured by one's ability to cover the bases – to deliver not just the product but complete satisfaction with the process.

And once this level of satisfaction is achieved, you don't rest on your laurels. You refine, you improve, you innovate. Complacency has no place in a partnership. You work to deliver more value, because there will always be some

Customer Service *IS* our business.

"Our challenge is to ensure that the full experience of doing business with Knappco exceeds a customer's expectations. Our manufacturing and engineering capabilities are top-notch, but if we don't process an order properly, fail to deliver on time, misquote a product, mishandle a phone call, well, then all the quality and value is lost. Great customer service means we focus on both the 'big picture' and the details."

Rick Potter
President,
Knappco Corporation



other company that claims higher quality or a lower price. You work to turn a philosophy of partnership into a valuable reality for your customer.

At Knappco, our partnering philosophy means working closely with every customer to provide better support and improve manufacturing capability. It also means investing heavily in our own dedicated resources. In 2000 alone, we committed over \$3.5 million in expansions to our headquarters and improvements to our manufacturing facilities. We instituted the Oracle ERP system to better manage our customer and vendor transactions. We initiated and enhanced employee job-training programs. We achieved ISO 9001 certification. And more. All to ensure that our promise of unmatched quality and customer service is always met.

Looking for something more in a supplier? We invite you to take a closer look at Knappco and see the difference. With Knappco, you *are* covered.

Knappco and Transfer Control Technologies... the future is now.

As part of Transfer Control Technologies, Knappco now has more to offer than ever before. Together, we offer unprecedented engineering, manufacturing, sourcing and support resources, advancing the meaning of "systems solutions" and delivering tomorrow's technology, today. Which all adds up to products that deliver improved performance, profitability and safety for companies involved in the handling, transportation and storage of hazardous bulk commodities around the world. One more convincing reason to believe that with Knappco, you're covered.

 **TRANSFER CONTROL**
technologies



civacon[™]



ISO 9001
certified



PRESSURE & NON-PRESSURE

Manholes



Applications: Salt, cement, dry food products, sand chemicals, crude oil and other general applications with a working pressure ≤ 30PSI
Features: 6 quick-opening adjustable cam levers; open rib cover design provides strength without product hangup; meets MC307 and DOT-407(HM183)

LM 20" full opening pressure manhole for rail car/cargo tank/ industrial/intermodal/bulk containers (IBC) — up to 30PSI

Cover Material	Weld Ring	Gasket	Vent
1 Aluminum/Plated	0 None	1 Buna N	0 No Vent
2 Aluminum/SS304	1 6" x 1/4" Aluminum	2 White Neoprene	
	2 6" x 1/4" Steel	3 Viton	
	3 6" x 1/4" SS304	4 Teflon Envelope	

Avg. ship weight: 55 lbs (steel)
Overall height: 8 1/4" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port, access door, manway
Features: Two additional cam levers for tighter seal; locking latch; lightweight, easy to maintain

KM 20" non-pressure manhole for cargo tank/industrial/storage tanks

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/SS	1 3" x 1/4" Steel	2 White Neoprene	
3 SS316/SS	2 3" x 1/4" SS304	3 Viton	
	3 3" x 1/4" SS316	4 EPDM	
		5 Hi-Temp	

Avg. ship weight: 42 lbs (steel)
Overall height: 4 1/4" approximate



Applications: Cleanout, inspection cover, sampling port
Features: Durable construction, easy removal and maintenance; gasket is held in place by retainer clips welded to the cover; Buna N gaskets are standard, easy to replace

KF 16" non-pressure manhole for industrial/storage tanks

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 3" x 12 Ga. Steel	2 White Neoprene	
3 SS304/Plated	2 3" x 1/4" Aluminum	3 Teflon Env. w/ Black Neoprene Filler	
4 SS304/SS	3 3" x 12 Ga. SS304	4 Hi-Temp	
5 SS316/SS	4 3" x 12 Ga. SS316	5 EPDM	
		6 Red Silicone	

Avg. ship weight: 14lbs (steel with weld ring)



Applications: Fill opening, cleanout, inspection cover, sampling port
Features: Durable, lightweight, locking latch

KA 16" non-pressure manhole with 10" fill opening for industrial/storage tanks/agriculture

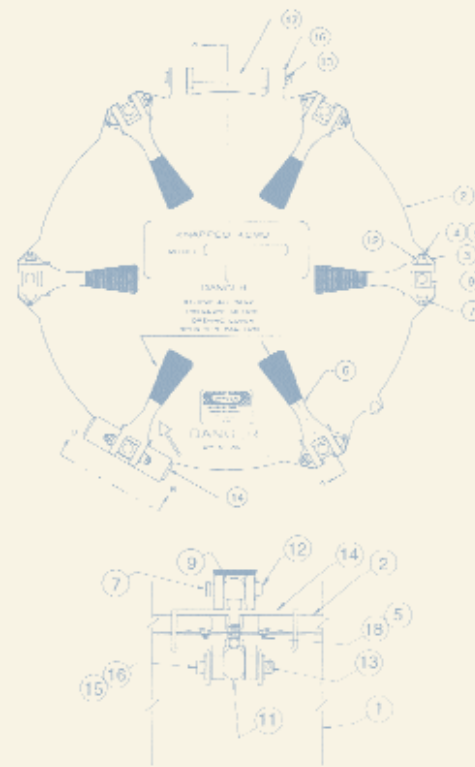
Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 3" x 12 Ga. Steel	2 Viton	2 VE0400
3 SS304/Plated	2 3" x 1/4" Aluminum	3 Hi-Temp	
4 SS304/SS	3 3" x 12 Ga. SS304		
5 Plated/Plated	4 3" x 12 Ga. SS316		
7 SS316/SS			

Avg. ship weight: 18 lbs (steel with weld ring)
Overall height: 5 1/4" approximate

We specify only Knappco manholes... because they're the best!

"If there's something wrong with a manhole, our customer thinks there's something wrong with the tank — we can't afford that. Knappco's focus on building the best manhole, one that exactly meets our specifications and performance criteria, is matched by their customer support. Their Quality Control has raised our standards... and that makes us, and our customers, very happy."

Rick Cohan • Purchasing Manager
 Mid-State Tank Co., Inc.



At Knappco we design and manufacture manholes for a diverse range of industries and applications. You'll find Knappco brand manholes on rail cars, in storage silos and tanks, as part of industrial conveyance systems — anywhere in the world where there's demand for consistent, quality manufactured manholes. We offer 16 standard pressure and non-pressure manhole configurations — steel, stainless steel, aluminum, with a variety of gasket materials — designed to meet a majority of needs. Or we can custom engineer and manufacture to meet your precise specifications. Regardless of the application, every Knappco manhole must pass our exacting quality control process to ensure it meets your specifications. We realize our success is dependent on your success. Whatever your manhole need, Knappco has the solution.



Manholes



Applications: Fill opening, cleanout, inspection cover, sampling port
Features: Durable, lightweight, locking latch

KB 20" non-pressure manhole with 10" fill opening for industrial/storage tanks/agriculture

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 3" x 12 Ga. Steel	2 EPDM	2 VE0400
3 SS304/SS	2 3" x 1/4" Aluminum	3 Hi-Temp	3 VE0010
4 Plated/Plated	3 3" x 12 Ga. SS304	4 Teflon Env. w/ Viton FC Gasket	
5 SS316/SS	4 3" x 12 Ga. SS316	5 White Neoprene	
		6 Viton	

Avg. Ship weight: 20 lbs (steel with weld ring)



Applications: Fill opening, cleanout, inspection cover, sampling port
Features: Durable, lightweight, locking latch to secure contents

LD 16" non-pressure manhole for cargo tanks/ industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 3" x 3/16" Steel	2 Teflon Envelope	
3 SS304/SS	2 3" x 1/4" Aluminum	3 Viton	
4 SS316/SS	3 3" x 3/16" SS304	4 Hi-Temp	
5 SS304/Plated	4 3" x 3/16" SS316	5 White Neoprene	
6 SS316L/SS	5 3" x 3/16" SS316L	6 EPDM	

Avg. ship weight: 25 lbs (steel with weld ring)
Overall height: 4 5/8" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port
Features: Durable, lightweight, locking latch to secure contents

LE 20" non-pressure manhole for cargo tanks/ industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 3" x 3/16" Steel	2 White Neoprene	
3 SS304/SS	2 3" x 1/4" Aluminum	3 EPDM	
4 SS316/SS	3 3" x 3/16" SS304	4 Viton	
5 SS304/Plated	4 3" x 3/16" SS316	5 Teflon	
6 SS316L/SS	5 3" x 3/16" SS316L	6 Hi-Temp	

Avg. ship weight: 29 lbs (steel with weld ring)
Overall height: 4 3/8" approximate



Applications: Cleanout, inspection cover, sampling port
Features: Durable construction, easy removal and maintenance; gasket is held in place by retainer clips welded to the cover; Buna N gaskets are standard, easy to replace

KG 20" non-pressure manhole for industrial/storage tanks

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 3" x 12 Ga. Steel	2 Hi-Temp	
3 SS304/SS	2 3" x 1/4" Aluminum	3 White Neoprene	
4 SS316/SS	3 3" x 12 Ga. SS304		
	4 3" x 12 Ga. SS316		

Avg. ship weight: 16 lbs (steel) / 8 lbs (aluminum)
Overall height: 3 1/8" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port, access door, manway
Features: Two additional cam levers for tighter seal; locking latch; lightweight, easy to

KN 24" non-pressure manhole for cargo tank/industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/SS	1 4" x 3/16" Steel	2 White Neoprene	
3 SS316/SS	2 4" x 3/16" SS304	3 Hi-Temp	
	3 4" x 3/16" SS316	4 EPDM	
		5 Viton	

Avg. ship weight: 52 lbs (steel)
Overall height: 5 3/8" approximate



Applications: General purpose access door
Features: Braced cover; 9 quick-opening adjustable cam levers

LT 30" full opening non-pressure manhole

Cover Material	Weld Ring	Gasket	Vent
1 Steel	0 None	1 Buna N	0 No Vent
2 Aluminum	1 4 1/2" x 3/16" Steel	2 White Neoprene	
3 SS304	2 4 1/2" x 3/16" Aluminum		
4 SS316	5 4 1/2" x 3/16" SS304		
	7 4 1/2" x 3/16" SS316		

Avg. ship weight: 90 lbs (steel)
Overall height: 6 1/8" approximate



Applications: General purpose access door for non-code applications ≤12PSI
Features: 6 quick-opening adjustable cam levers; safety catch helps prevent accidents when opening against residual pressure; locking tabs enable contents to be secured with tamper-proof seal

KS 20" full opening pressure manhole for cargo tank/industrial/bulk storage tanks — up to 12PSI

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 6" x 3/16" Steel	2 White Neoprene	
3 SS316/Plated	2 6" x 3/16" SS304	3 Hi-Temp	
4 SS304/SS	3 6" x 3/16" SS316	4 Viton	
5 SS316/SS			

Avg. ship weight: 52 lbs
Overall height: 6" approximate



Applications: General purpose access door for non-code applications ≤18PSI
Features: 6 quick-opening adjustable cam levers; safety catch helps prevent accidents when opening against residual pressure; locking tabs enable contents to be secured with tamper-proof seal

MJ 20" full opening pressure manhole for cargo tank/industrial/bulk storage tanks — up to 18PSI

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 6" x 3/16" Steel	2 White Neoprene	
3 SS316/Plated	2 6" x 3/16" SS304		
4 SS304/SS	3 6" x 3/16" SS316		
5 SS316/SS			

Avg. ship weight: 52 lbs
Overall height: 6" approximate



Applications: Hot oil, asphalt, general purpose access door with working pressure ≤25PSI
Features: 6 quick-opening adjustable cam levers; safety catch helps prevent accidents when opening against residual pressure; locking tabs enable contents to be secured with tamper-proof seal

MZ 20" full opening pressure manhole for cargo tank/ industrial — up to 25PSI

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Plated	0 None	1 Buna N	0 No Vent
	1 6" x 3/16" Steel	2 Teflon	

Avg. ship weight: 75 lbs
Overall height: 8 1/4" approximate



Applications: For liquid or dry materials with working pressure ≤18PSI
Features: 9 quick-opening adjustable cam levers; safety catch helps prevent accidents when opening against residual pressure

KY 24" full opening pressure manhole — up to 18PSI

Cover Material	Weld Ring	Gasket	Vent
1 Aluminum/Plated	0 None	1 Black Buna N	0 No Vent
2 Aluminum/Steel	1 4" x 3/16" Steel	2 White Neoprene	
	2 4" x 3/16" Aluminum		
	3 4" x 3/16" SS304		
	4 4" x 3/16" SS316		

Avg. ship weight: 70 lbs
Overall height: 6 1/4" approximate



Applications: For liquid or dry materials with working pressure ≤30PSI
Features: Heavy duty; 9 quick-opening adjustable cam levers; safety catch helps prevent accidents when opening against residual pressure

KZ 24" full opening pressure manhole — up to 30PSI

Cover Material	Weld Ring	Gasket	Vent
1 Aluminum/Plated	0 None	1 Black Buna N	0 No Vent
2 Aluminum/Steel	1 4" x 3/16" Steel	2 White Neoprene	
	2 4" x 3/16" SS304		

Avg. ship weight: 75 lbs
Overall height: 6 1/4" approximate

PRESSURE & NON-PRESSURE

Fill Covers & Access Ports



Applications: Fill opening, cleanout, inspection cover, sampling port
 Features: Wing-nut hatch provides tight, secure closure; durable, lightweight construction

LH 6" non-pressure fill cover for cargo tanks/conveying systems/
 industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 2" x .135" Steel	2 Hi-Temp	
3 SS316/Plated	2 2" x 11 Ga. SS304	3 EPDM	
4 SS316L/Plated	3 2" x 10 Ga. SS316	4 Teflon	
5 SS304/SS304 (plated wing nut)	4 2" x 11 Ga. SS316L	5 White Neoprene	

Avg. ship weight: 9.5 lbs
 Overall height: 4 1/2" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port
 Features: Ideal inspection port for screw/air operated conveying system; locking hatch, easy opening cover; durable, lightweight construction

LA 8" non-pressure fill cover for cargo tanks/conveying systems/
 industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 3" x .135" Steel	2 Hi-Temp	
3 SS304/SS304	2 3" x 11 Ga. SS304	3 White Neoprene	
4 SS316/SS304	3 3" x .148" SS316	4 Teflon	
5 SS304L/SS304	4 3" x 11 Ga. SS304L	5 Viton	

Avg. ship weight: 11 lbs
 Overall height: 4 1/2" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port
 Features: Ideal for sampling port inspection hatch; wing-nut latch provides tight, secure closure;

LW 8" non-pressure fill cover for cargo tanks/conveying systems/
 industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 3" x .135" Steel	2 Hi-Temp	
3 SS316/SS304 (plated wing nut)	2 3" x .148" SS304	3 White Neoprene	
	3 3" x 10 Ga. SS316		

Avg. ship weight: 11 lbs
 Overall height: 5 1/2" approximate



Applications: Fill opening, cleanout, inspection cover, sampling port
 Features: Ideal inspection port for screw/air operated conveying systems; locking hatch, easy opening cover; durable, lightweight construction; replaceable hinge pins

LB 10" non-pressure fill cover for cargo tanks/conveying systems/
 industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 Aluminum/Plated	1 10 Ga. Steel	2 Teflon	
3 SS304/Plated	2 .190 (9.6 ID) Aluminum	3 Hi-Temp	
4 SS304/SS304	3 10 Ga. SS304	4 Black Neoprene	
5 SS316/SS304	4 10 Ga. SS316	5 White Neoprene	
6 SS316L/SS304	5 10 Ga. SS316L	6 EPDM	
		7 Viton	

Avg. ship weight: 14 lbs
 Overall height: 4 1/2" approximate



Applications: Fill cover
 Features: Spring-loaded fill cap provides positive seal under normal operation, eliminates flutter during emergency pressure release; additional venting capabilities; rated emergency venting capacity 191,268 CFH at 5PSI

LJ 10" pressure-relieving fill cover for cargo tank/industrial — up to
 5PSI

Cover Material	Weld Ring	Gasket	Vent
1 SS304/SS304	0 None	1 Buna N	0 No Vent
2 Steel/Steel	1 3" x 10 Ga. SS304	2 Viton	1 VE0400
3 Aluminum/Plated	2 3" x 10 Ga. Steel	3 Teflon	2 VE0007
	3 3" x .190" Aluminum	4 White Neoprene	3 VE0008

Avg. ship weight: 16 lbs
 Overall height: 4 1/2" approximate

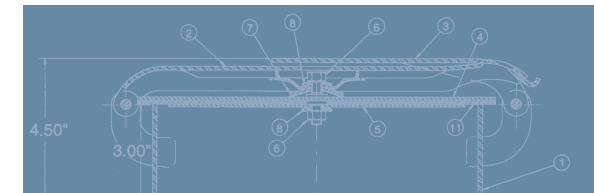


Applications: Fill opening, cleanout, inspection cover, sampling port
 Features: Ideal inspection port for screw/air operated conveying systems; locking hatch, easy opening cover; durable, lightweight construction; replaceable hinge pins

LS 12" non-pressure fill cover for cargo tanks/conveying systems/
 industrial/storage silos

Cover Material	Weld Ring	Gasket	Vent
1 Steel/Steel	0 None	1 Buna N	0 No Vent
2 SS304/Plated	1 3" x 10 Ga. Steel	2 Hi-Temp	
3 SS304/SS304	3 3" x 10 Ga. SS304	5 White Neoprene	
5 SS316/SS304	4 3" x 10 Ga. SS316		
6 SS316L/SS304	5 3" x 10 Ga. SS316L		

Avg. ship weight: 17 lbs
 Overall height: 4 1/2" approximate





PRESSURE & VACUUM RELIEF

Hatch Covers

Quality isn't something you can engineer, or "spec" into a product. At Knappco, we've found that quality is the result of something much more elemental – communication and pride. Sure, our engineering professionals utilize the latest computer-aided design (CAD) software, Finite Element Analysis (FEA), rapid prototyping technology and in-house quality control facilities to test products and systems long before they hit the real world.

But it's our philosophy of open communication amongst our different disciplines that makes Knappco quality a reality our customers depend on.

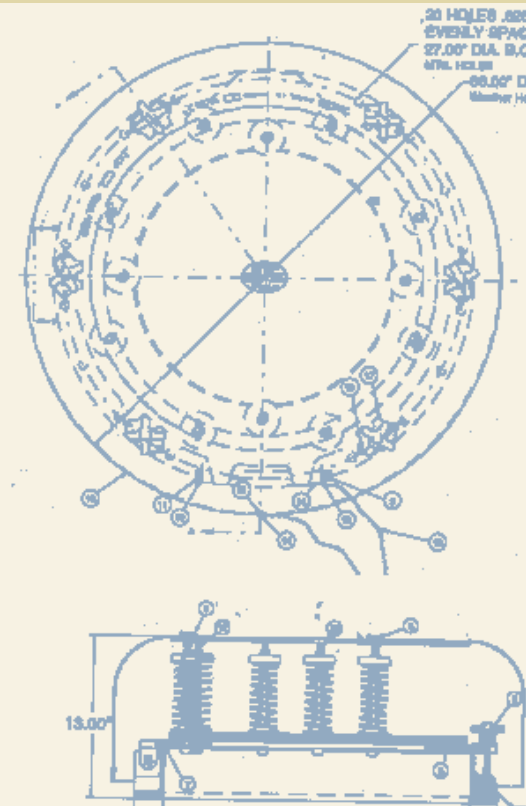
Engineering, Manufacturing, Operations and Sales & Marketing all share ownership of every product we manufacture. The origins of new product development may come from anywhere,



Before a Knappco product can meet a customer's standards, it has to first meet our standards.

"Every product that comes from our cell must pass our quality checks before it can move on to the next process. Sometimes our standards are higher than the customers'. But we're a competitive team... each of us is responsible to make sure we're at 100% quality."

Bob Reilly
Team Leader / Assembly Cell
Knappco Corporation



but all members of the team personally share the responsibility to deliver a superior product, on time and at competitive prices. It's part of our corporate Quality Policy. And it means every hatch cover – like every product we make – is built to perform, built to last, built to deliver true value.

Knappco offers three standard pressure vacuum hatch covers, covering a wide range of pressure and vacuum settings. The one constant you'll find – a commitment to quality, built into every product.



Hatch Covers



HH 24" pressure/vacuum tank hatch for bulk storage tanks

Applications: Silos, grain elevators, baghouse for cement, food products, grain, industrial products

Features: All-aluminum contact parts eliminate corrosion; no internal hardware to contaminate product; weather hood provides protection from elements; palm nuts allow for quick, easy opening; large 24" opening provides higher venting capacity and improved access into the tank



Pressure Setting Settings: 02 through 29 oz.	Vacuum Setting Setting: 0.5 through 9 oz.	Gasket 1 White Food Grade (FDA approved)
--	---	--

(first two digits indicate pressure setting) (second two digits indicate vacuum setting)
Part Number Example: HH02051 = 2 oz. pressure, 0.5 oz. vacuum

Warning: Cover should be inspected at least once each month for proper operation and proper functioning hardware. The weather hood should be inspected for damage. Replace any missing or damaged items.

Avg. ship weight: 81 lbs
Overall height: 13" approximate



HA1110



HA2110

HA 8" full opening pressure/vacuum tank hatch for bulk storage tanks

Applications: Silos, grain elevators, baghouse for cement, food products, grain, industrial products

Features: Full opening cover can be used for sampling or inspection; available with bolted or weld flange base; dependable design is easy to maintain; relieves pressure at 1.5 oz./sq. in. and vacuum at .5 oz./sq. in. with 46.4 sq. in. free area of pressure relief and 15.9 sq. in. free area of vacuum relief

Base	Cover	Dome	Pressure Option
1 Steel, weld, straight 2 Cast iron, flanged, sloped	1 Plated Steel	1 Plated	0 None

Avg. ship weight: 14 lbs (flanged base) 19 lbs (weld ring)



HC 20" full opening pressure/vacuum tank hatch for bulk storage tanks

Applications: Silos, grain elevators, baghouse for cement, food products, grain, industrial products

Features: Bolted flange base; full opening, dependable design, easy to maintain; 291 sq. in. free area of pressure relief and 78.5 sq. in. free area of vacuum relief; not for use on any hazardous materials – product can be emitted when relieving pressure

Base	Cover	Dome	Pressure Option
1 Cast Aluminum 2 Aluminum/Brass Screen 3 Aluminum/SS Screen	1 Cast Aluminum	1 Cast Aluminum cover with plated 2 oz. dome 2 Cast Aluminum cover with 1 oz. dome	0 1 oz. aluminum dome/ 2 oz. steel dome 1 4 oz. steel dome 2 5 oz. steel dome 3 6 oz. steel dome

Avg. ship weight: HC1120 40 lbs • HC1110 60 lbs • HC1111 100 lbs
Overall height: 4 1/2" approximate
Vacuum Setting: 0.5 oz./sq. in. on all models





SWING CHECK VALVES & WELD RINGS

Swing Check Valves & Weld Rings

Did you know every Knappco check valve is 100% performance tested before it leaves our facilities? Or that unlike common weld rings, our customized tooling gives Knappco weld rings a consistent, smooth 90° radius flange for a cleaner finish and fit? Attention to detail and an uncompromising commitment to quality can be a rare find in today's world – but it's the norm at Knappco. It's how we assure every Knappco swing check valve and weld ring sets the standard for real world performance and true value.

Knappco swing check valves are designed to provide maximum throughput of air or dry products in pneumatic applications, with minimal pressure drop. Our self-aligning poppet assembly assures an even seat, and can be easily removed for replacement. Featuring a sturdy cast aluminum



A commitment to making our customers successful...

"I've been working with rail car manufacturers for 16+ years, and Knappco's success hasn't come overnight. It's been the result of consistently delivering products at and above customer quality requirements. But quality alone isn't the reason National Steel Car, Thrall Car Mfg., and Trinity Industries specify Knappco components for both their pressure differential and plastic pellet hopper cars. It's been Knappco's commitment to these customers' businesses — finding ways to innovate and improve processes and designs, going the extra yard to meet a deadline — that has resulted in Knappco's long business history with these companies. We must be doing something right — 9 out of every 10 new PD hopper cars and a large percentage of new plastic pellet hopper cars have Knappco components on them."

Hank Knaack
Vice President Rail/Industrial
Knappco Corporation



Swing Check Valves

Body Style	Internals	
	Brass/Steel Buna N/Viton	Aluminum/SS Buna N/Viton
2" Flanged	VA0001 / VA0003	VA0002 / VA0004
2" Flanged Spring Loaded (S/L)	VA0005 / VA0007	VA0006 / VA0008
3" Flanged	VA0009 / VA0011	VA0010 / VA0012
3" Flanged S/L	VA0013 / VA0015	VA0014 / VA0016
3" Flanged Split Ring Top	SP1012B	SP1012
3" Flanged Split Ring Top S/L		SP1137
3" Threaded	VA0017 / VA0019	VA0018 / VA0020
3" Threaded S/L	VA0021 / VA0023	VA0022 / VA0024
3" Threaded Split Ring Top		SP1011
3" Victaulic		VA0034
3" Victaulic S/L		VA0033
4" Flanged	VA0025 / VA0027	VA0026 / VA0028
4" Victaulic	VA0029 / VA0031	VA0030 / VA0032

Food Grade Silicon Internal gasket also available by request

body in 2-inch, 3-inch and 4-inch sizes, Knappco swing check valves are available with either Buna N, Viton or Silicon (food-grade) gaskets. And yes, every Knappco swing check valve is 100% performance tested before it ships – peace of mind that when you specify Knappco swing check valves, you've specified the best.

Knappco weld rings are available in steel, plated steel, stainless steel (304 and 316) and come in a wide range of sizes (6" to 32") for a perfect fit with your fabrication processes. Custom manufacturing to your specifications is also available – please contact us.





FOCUS: CUSTOMER SERVICE

Technical Support & Customer Service

At a lot of companies, Customer Service is a post-sale concern, something that occurs only if there's a problem. At Knappco, Customer Service is our business. Listening to customers and acting on what we hear are at the heart of Knappco's success. We pride ourselves on our ability to work closely with customers, to hear their needs and deliver the right solutions. Have a question? We're here for you. With Knappco, you're covered.

Knappco Customer Support Contact Coordinates:

Phone: 888/526-5657 (toll free in the USA)
816/741-6600

Fax: 888/634-1433 (toll free in the USA)
816/741-1061

Email: info@knappco.com

Web: www.knappco.com



People make the difference, and Knappco has some of the best.

"We've been working with Knappco for years. As our business has grown and changed, Knappco has been there for us every step of the way. What's impressed me most about Knappco is their people. Their philosophy is to take care of customers, and as a customer, I can honestly say they do an excellent job."

Jeff Lavery
President
KC Supply Co., Inc.



TRANSFER CONTROL TECHNOLOGIES

Quality Policy

Through continuous improvement we will strive to meet or exceed our external and internal customers' expectations by delivering superior products and services on time and at competitive prices.





Around the world, every day, companies like yours put Knappco manholes, industrial access ports, hatches, coamings, collars, weld rings and fill covers to the test, in the harshest of work environments. And day-in, day-out, Knappco brand products more than meet the challenge. But precision engineering and quality manufacturing are only part of the story. Covering the details with dedicated customer service and technical support is what ultimately makes Knappco different, and better. It's our personal commitment to exceeding your expectations, that is the true measure of our success.

Put your trust in the name that covers all the bases, for over 50 years —
Knappco.

KNAPPCO Corporation

4304 Mattox Road
Riverside, MO 64150
Ph: 816/741-6600
Fx: 816/741-1061
www.knappco.com
info@knappco.com

ISO 9001
certified

©2001 Knappco • FMICK00102A.1.9-3.0