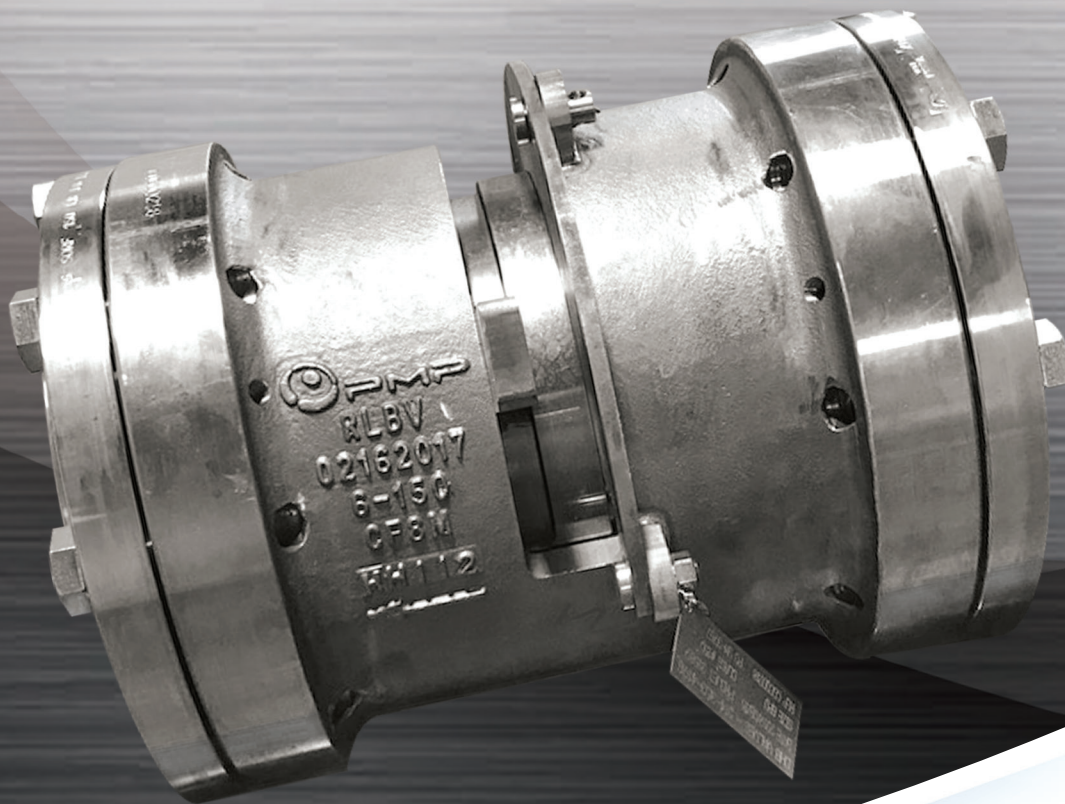




## THE RADIAL LINE BLIND

Designed & Engineered in North America



**STEALTH INTERNATIONAL LTD.**

375 University Avenue East, Unit 205-C1, Waterloo, Ontario, Canada N2K 3M7

Telephone 1.800.361.5571 • Mobile 1.226.749.2310



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## THE LINE BLIND

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*Isolating connected process piping is a necessary step for maintenance of all tanks and pressure vessels and is currently a very time consuming task that requires the use of skilled trades people in most cases. As the availability of skilled labour decreases and the cost increases it has become more important than ever to find a safe, simple, low cost solution. The Radial Line Blind improves on existing technology to create a superior product that can be marketed at a lower cost due to its simple construction and become the standard for vessel isolation.*



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# THE PROBLEM

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In applications across the world, across all industries, maintenance must be done inside vessels and absolute positive shut-off must be achieved of fluids in connected piping. There are three available options to achieve this, which are:

- 1) Disconnect adjacent piping
- 2) Isolate using blanks or blinds
- 3) Isolate using a double block and bleed valve system (not acceptable in all cases)

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# THE TRADITIONAL SOLUTION

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It is typically not economical or practical to disconnect the adjacent piping as this would require significant labour and often lifting equipment for heavy loads. A double block and bleed system while efficient in that an operator can complete the isolation without labour from a tradesperson, is not acceptable in all cases, carries a high capital cost of purchasing the valves and requires additional steps in the procedure to ensure the drain line remains clear. For these reasons the manual installation of a blind by a pipefitter is the traditional solution. Each bolt must be removed, a gasket installed on each side and of a blind or spectacle blind and then each bolt tightened.

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# THE BETTER SOLUTION

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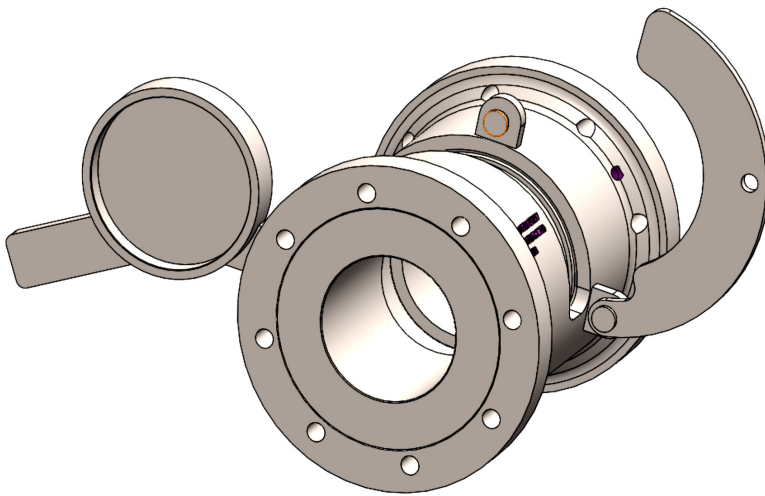
There is a need for a line blind that can improve on the features currently offered on the market and reduce the complexity of the valve so that it can be made available at a lower cost. A line blind meeting this criteria would become the industry standard for protection of workers in confined space vessel entries. **The Radial Line Blind** meets this need.

# THE RADIAL LINE BLIND

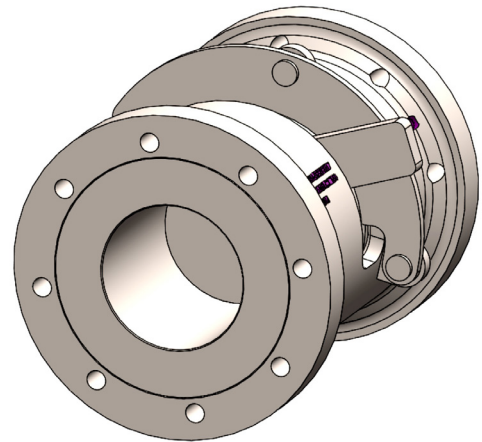
## Features

- 1) Safe
  - a. Absolute positive shut-off, leak path to atmosphere with second seal from process to downstream pipe
  - b. Radial seals provide excellent performance and wiping action not offered by face seals
- 2) Simple Construction – Fewer components and lower manufacturing cost
- 3) Quick – Isolation can be performed by one person in less than one minute
- 4) Easy – Reduced manual input due to unique pneumatic/hydraulic actuation (can be used with handheld compressed air for remote locations)
- 5) Clean – non spill design will prevent residual fluid loss during isolation

**Open Position** (Patent Pending)



**Isolated Position**



## Stealth Radial Line Blind

Size Range 2" to 24"

Pressure Class ASME B16.5. Class 150, 300 & 600

### Engineering Standards

ASME B 16.5	Flanged end connections
ASME B 16.25	Pressure Weld end connections
ASME B 16.34	Pressure & Temperature Standard
ASME B 31.3	Power Piping
ASME F 1020-86	Marine applications
API 598 B16.34	Valve inspection & testing

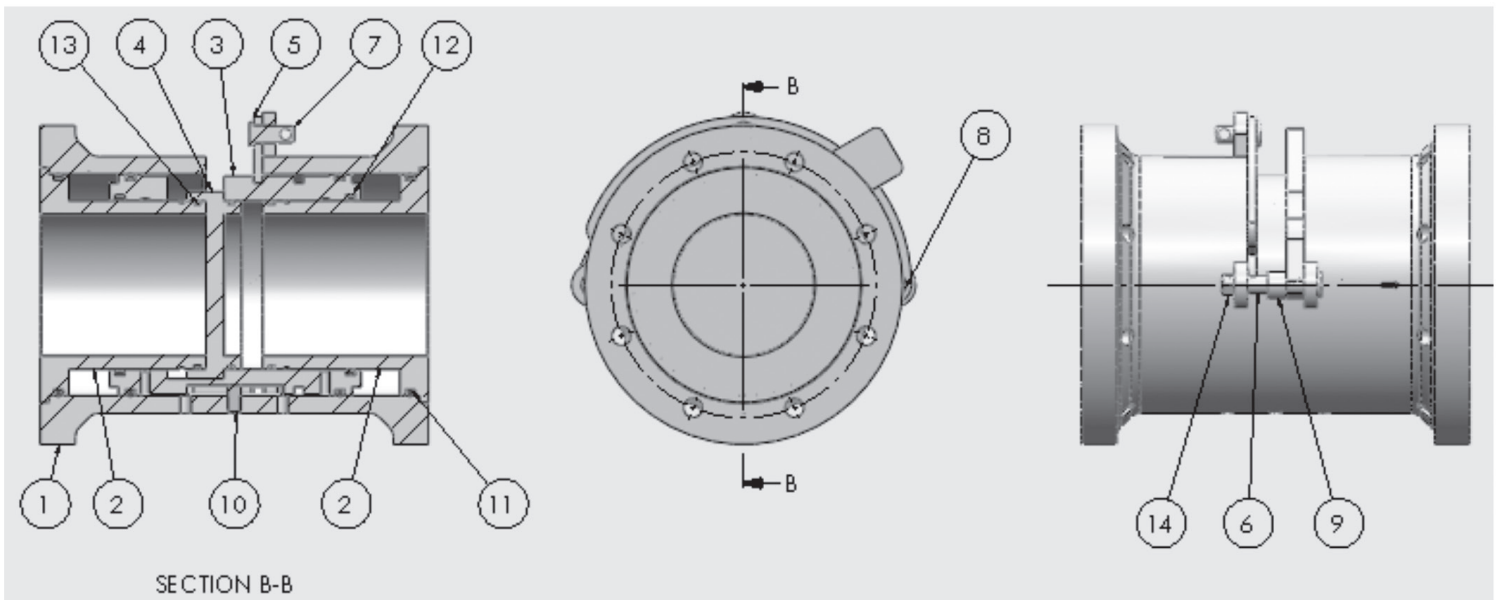
### Body Material

Interior Chrome Plated

ASTM A216 WCB, Cast Carbon Steel

ASTM A351 Gr. CF8, CF8M, CG8M

**Special alloy materials  
on request**



### Bill of Material

ITEM NO.	QTY.	DESCRIPTION	Material
1	1	MAIN BODY	316 S.S.
2	2	END PIPE	316 S.S.
3	1	CARRIAGE	316 S.S.
4	1	BLIND	316 S.S.
5	1	LOCK OUT ARM	316 S.S.
6	1	BLIND PIVOT BOLT	316 S.S.
7	1	LOCKPIN	316 S.S.
8	1	LOCK ARM PIVOT BOLT	316 S.S.
9	1	BLIND SPACER	316 S.S.
10	1	3/8-.75 LG SET SCREW	316 S.S.
11	4	Parker O-Ring	EPDM
12	2	Parker O-Ring	EPDM
13	3	Parker O-Ring	EPDM
14	2	3/8-16 UNC	316 S.S.

### Imperial dimensions

VALVE SIZE [inch]	A [inch]	φB [inch]	φC [inch]	φD [inch]	N x T [-]	Weight [lbs]
4"	11.00	9.00	4.00	7.50	8 x 5/8-11 UNC	91
6"	12.00	11.00	6.00	9.50	8 x 3/4-10 UNC	146
8"	12.75	13.50	8.00	11.75	8 x 3/4-10 UNC	211
10"	14.50	16.00	10.00	14.25	12 x 7/8-9 UNC	319
12"	15.75	19.00	12.00	17.00	12 x 7/8-9 UNC	471
14"	16.00	21.00	13.25	18.75	12 x 1-8 UNC	654
16"	19.00	23.50	15.25	21.25	16 x 1-8 UNC	768
18"	20.00	25.00	17.25	22.75	16 x 1 1/8-7 UNC	976
20"	21.00	27.50	19.25	25.00	20 x 1 1/8-7 UNC	1160
24"	23.00	32.00	23.25	29.50	20 x 1 1/4-7 UNC	1627

### Metric dimensions

VALVE SIZE [mm]	A [inch]	φB [inch]	φC [inch]	φD [inch]	N x T [-]	Weight [kg]
100	279.4	228.6	101.6	190.5	8 x 5/8-11 UNC	41.3
150	304.8	279.4	152.4	241.3	8 x 3/4-10 UNC	66.2
200	323.9	342.9	203.2	298.5	8 x 3/4-10 UNC	95.7
250	368.3	406.4	254.0	362.0	12 x 7/8-9 UNC	144.7
300	400.1	482.6	304.8	431.8	12 x 7/8-9 UNC	213.7
350	406.4	533.4	336.6	476.3	12 x 1-8 UNC	296.7
400	482.6	596.9	387.4	539.8	16 x 1-8 UNC	348.5
450	508.0	635.0	438.2	577.9	16 x 1 1/8-7 UNC	442.8
500	533.4	698.5	489.0	635.0	20 x 1 1/8-7 UNC	526.3
600	584.2	812.8	590.6	749.3	20 x 1 1/4-7 UNC	738.2



## **Contact information:**

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