



Sizes
2" to 18"



Pressure
up to 285 PSIG



Temperature
up to 400°F



Applications
Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

Features

- Silent non-slam closure
- Flanged body style
- Metal to metal seats

End Connections

- Flat Face
- Raised Face

Body Materials

- Cast Iron
- Carbon Steel
- Stainless Steel

Disk Materials

- Bronze
- Stainless Steel

ASME Ratings

- Class 125
- Class 150
- Class 250

125FV Series

Foot Valves

Cast Iron Body | Flanged Style



Sizes
2" to 18"



Pressure
up to 200 PSIG
(13.8 BARG)



Temperature
up to 300°F
(149°C)



Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

Features

- ASME Class 125 rated foot valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Bronze Metal to Metal Seats

Applicable Codes (designed in accordance with)

- Bodies in accordance with ASME B16.1

Models

- 125FVIB – Cast Iron Body, Bronze Seat and Disc

Options

- Consult factory

125FV Series Ordering Code

1 Inlet Size				2 Model								3 Seat	4 Perf	5 Mesh	
0	6	0	0	—	1	2	5	F	V	I	B	M	—	4	5

1	Inlet Size					
0200	2"	0500	5"	1200	12"	
0250	2½"	0600	6"	1400	14"	
0300	3"	0800	8"	1600	16"	
0400	4"	1000	10"	1800	18"	

2	Model					
125FVIB	Cast Iron Body, Bronze Disc, Metal Seat					

3	Seat					
M	Metal					

4	Perf (304SS Material ¹)					
1	1/32"	3	3/32"	8	1/4"	
B	3/64"	5	5/32"	9	3/8"	
4	1/8" (std)	6	3/16"			
2	1/16"	7	7/32"			

5	Mesh (Leave Blank if not required)					
1	10	4	40	7	70	
2	20	5	50	8	80	
3	30	6	60	9	90	

Flow Coefficient Values (Cv)

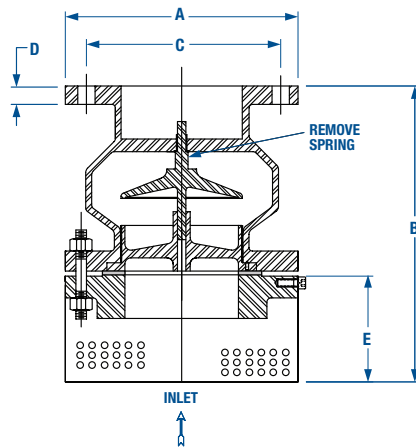
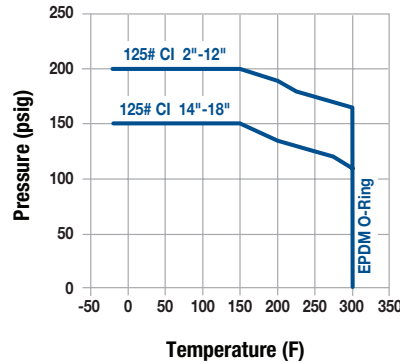
Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	53	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
8"	1004	1105	1297
10"	1579	1700	1992
12"	2556	2575	2593
14"	3286	3350	3479
16"	4199	4300	4427
18"	5112	5225	5376

1. For other screen materials contact factory.



**Pressure / Temperature Chart
ASME B16.1**



Description

SSI manufactures cast iron foot valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. SSI cast iron foot valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Sizes

2" to 18"

Pressure

200 PSIG (13.8 BARG)

Temperature

300° F (149° C)

End Connections

FF Flanged

Cracking Pressure

Vertical - Consult Factory

Features

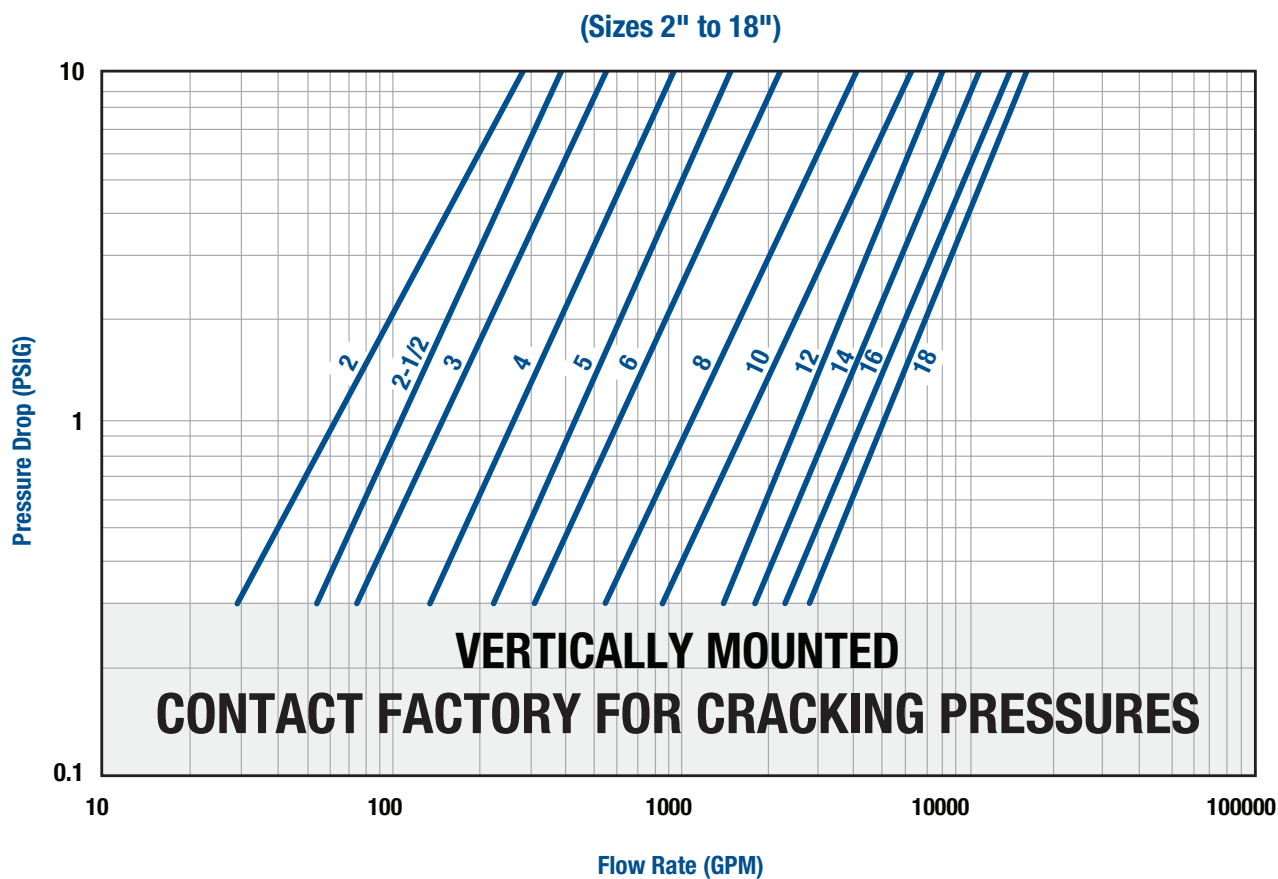
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Bronze metal to metal seats

Dimensions																		
Size		A		B		C		D		E		Stud Lgth		Bolt Size		# of Bolts	Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		lbs	kg
2"	50	6.0	152	8.38	213	4.75	121	0.75	19	3	76	3.25	83	0.63	16	4	30	14
2½"	65	7.0	178	8.63	219	5.50	140	0.88	22	3	76	3.50	89	0.63	16	4	45	20
3"	80	7.5	191	9.63	244	6.00	152	0.94	24	3	76	3.75	95	0.63	16	4	51	23
4"	100	9.0	229	11.13	283	7.50	191	0.94	24	3	76	3.75	95	0.63	16	8	83	38
5"	125	10.0	254	13.38	340	8.50	216	0.94	24	4	102	4.00	102	0.75	19	8	104	47
6"	150	11.0	279	15.88	403	9.50	241	1.00	25	5	127	4.00	102	0.75	19	8	133	60
8"	200	13.5	343	19.63	498	11.75	298	1.13	29	6	152	4.25	108	0.75	19	8	215	98
10"	250	16.0	406	23.63	600	14.25	362	1.19	30	7	178	4.75	121	0.88	22	12	324	147
12"	300	19.0	483	23.38	594	17.00	432	1.25	32	8	203	4.75	121	0.88	22	12	557	253
14"	350	21.0	533	25.88	657	18.75	476	1.38	35	9	229	5.25	133	1.00	25	12	890	404
16"	400	23.5	597	29.00	737	21.25	540	1.44	37	10	254	5.50	140	1.00	25	16	1034	469
18"	450	25.0	635	31.13	791	22.75	578	1.56	40	11	279	6.00	152	1.13	29	16	1171	531

Dimensions shown are subject to change. Consult factory for certified drawings when required.

Materials	
Part	Material
Body	A126-B
Disc	B62
Seat	B62
Bolt	SA193 B8
Studs	SA193 B7
Hex Nuts	SA194 2H
Screen FLG	SA105
Screen	SA240 304
Gasket	Red Rubber

Pressure Drop VS. Flow Rate



- For correct installation and maintenance, please see our I & M manual.
- Mount only in vertical position with upward flow.

* Pressure drop curves are based on water flow.



Sizes
2" to 16"



Pressure
up to 285 PSIG
(19.7 BARG)



Temperature
up to 400°F
(204°C)



Applications

Process Industry | Power Industry | Chemical Industry | Liquid Service
Oil & Gas | Metals & Mining | Water & Waste | Pulp & Paper | Marine

Features

- ASME Class 150 rated foot valve
- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Flanged body style
- Stainless Steel Metal to Metal Seats

Applicable Codes (designed in accordance with)

- ASME Sec. VIII and B16.34 Bodies

Models

- 150FVCT – Carbon Steel Body, Stainless Steel Seat and Disc
- 150FVTT – Stainless Steel Body, Stainless Steel Seat and Disc

Options

- Consult factory

150FV Series Ordering Code

1 Inlet Size				2 Model								3 Seat	4 Perf	5 Mesh	
0	6	0	0	—	1	5	0	F	V	C	T	M	—	4	5

1	Inlet Size				
0200	2"	0500	5"	1200	12"
0250	2½"	0600	6"	1400	14"
0300	3"	0800	8"	1600	16"
0400	4"	1000	10"		

2	Model
150FVCT	Carbon Steel Body, SS Disc, Metal Seat
150FVTT	Stainless Steel Body, SS Disc, Metal Seat

3	Seat
M	Metal

4	Perf (304SS Material)				
1	1/32"	2	1/16"	6	3/16"
B	3/64"	3	3/32"	7	7/32"
4	1/8" (std)	5	5/32"	8	1/4"

5	Mesh (Leave Blank if not required)				
1	10	4	40	7	80
2	20	5	50	8	100
3	30	6	60		

Flow Coefficient Values (Cv)

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
2"	53	63	89
2½"	99	105	120
3"	135	148	174
4"	246	265	300
5"	402	430	474
6"	566	605	696

Size (in)	Min Cv (@ .3 PSID)	Cv (@ 1 PSID)	Max Cv (@ 10 PSID)
8"	1004	1005	1297
10"	1579	1700	1992
12"	2556	2575	2593
14"	3286	3350	3479
16"	4199	4300	4427

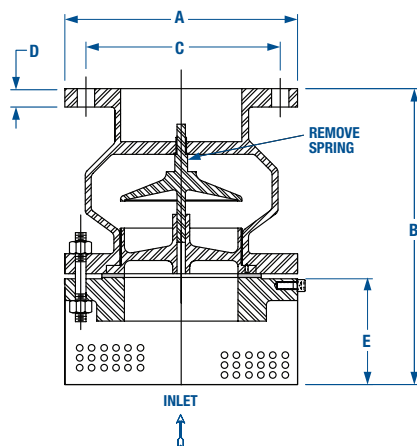
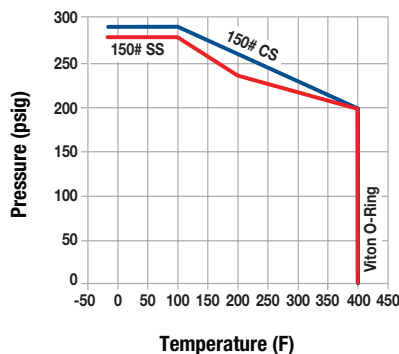
150FV Series

Foot Valves

Carbon Steel Body & Stainless Steel Body | Flanged Style



Pressure / Temperature Chart
ASME B16.34



Description

SSI manufactures carbon steel foot valves that are long-lasting, functional, cost-effective, and are well suited for commercial and industrial use. SSI carbon steel foot valves are suitable for a full range of steam, liquid, gas & oil, power, pulp & paper, process equipment, chemical, metal & mining and water & waste applications.

Sizes

2" to 16"

Pressure

285 PSIG (19.7 BARG)

Temperature

400° F (204° C)

End Connections

FF Flanged

Cracking Pressure

Vertical - Consult Factory

Features

- Designed to reduce surge and water hammer
- Silent, non-slam closure
- Heavy duty stainless steel screening with flow areas three to four times that of the pipe area
- Center guided at both ends to prevent binding and cocking
- Stainless steel metal to metal seats

Dimensions

Size		A		B		C		D		E		Stud Lgth		Bolt Size		# of Bolts		Weight	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm			lbs	kg
2"	50	6.00	152	8.38	213	4.75	121	0.75	19	3	76	3.25	83	0.63	16	4	25	11	
2½"	65	7.00	178	8.63	219	5.50	140	0.88	22	3	76	3.50	89	0.63	16	4	35	16	
3"	80	7.50	191	9.63	244	6.00	152	0.94	24	3	76	3.75	95	0.63	16	4	45	20	
4"	100	9.00	229	11.13	283	7.50	191	0.94	24	3	76	3.75	95	0.63	16	8	70	32	
5"	125	10.00	254	13.38	340	8.50	216	0.94	24	4	102	4.00	102	0.75	19	8	90	41	
6"	150	11.00	279	15.88	403	9.50	241	1.00	25	5	127	4.00	102	0.75	19	8	115	52	
8"	200	13.50	343	19.63	498	11.75	298	1.13	29	6	152	4.25	108	0.75	19	8	181	82	
10"	250	16.00	406	23.63	600	14.25	362	1.19	30	7	178	4.75	121	0.88	22	12	265	120	
12"	300	19.00	483	23.38	594	17.00	432	1.25	32	8	203	4.75	121	0.88	22	12	425	193	
14"	350	21.00	533	25.88	657	18.75	476	1.38	35	9	229	5.25	133	1.00	25	12	550	249	
16"	400	23.50	597	29.00	737	21.25	540	1.44	37	10	254	5.50	140	1.00	25	16	695	315	

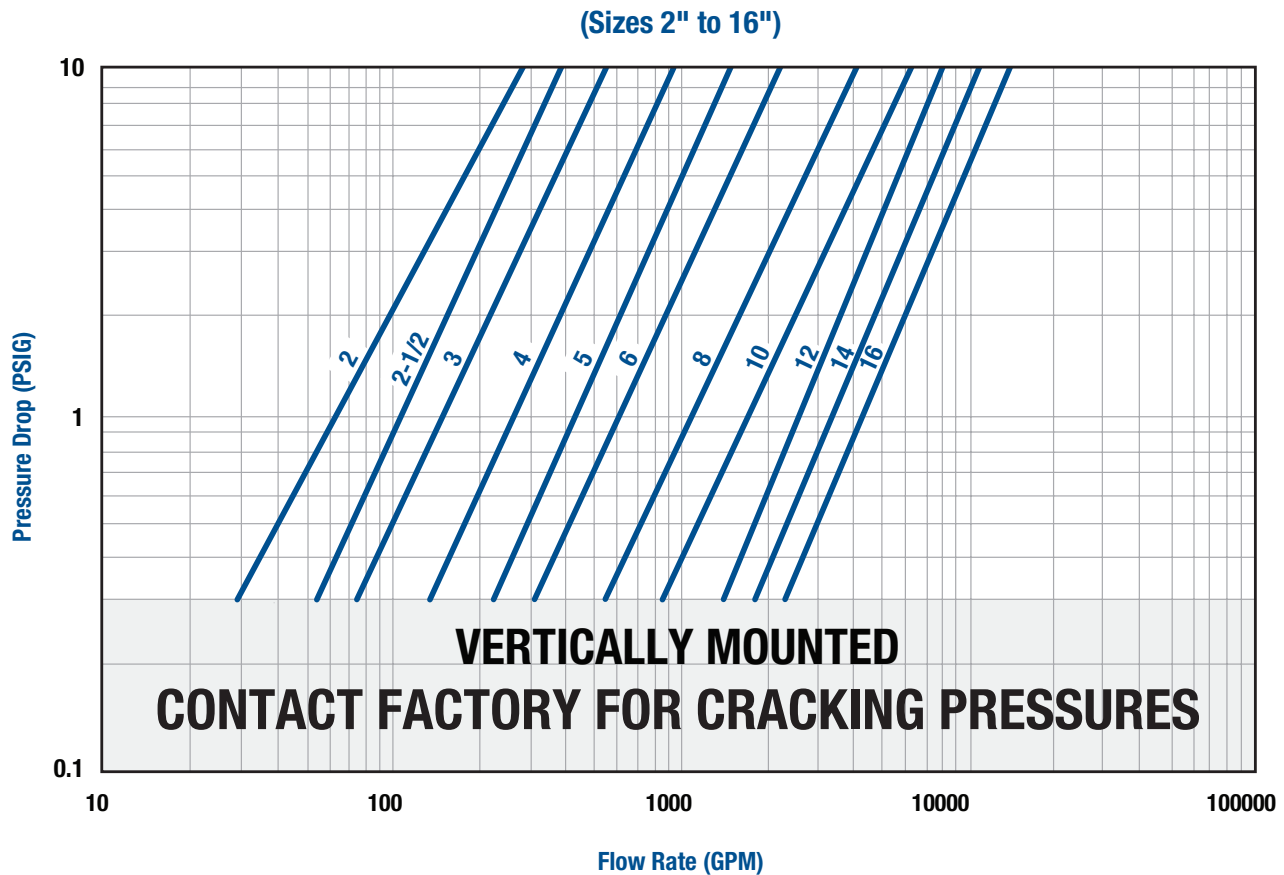
Dimensions shown are subject to change. Consult factory for certified drawings when required.

Materials

Part	Carbon Steel	Stainless Steel
Body	A216 WCB	A351 CF8M
Disc	A351 CF8M	A351 CF8M
Seat	A351 CF8M	A351 CF8M
Bolt	SA193 B8	SA193 B8
Studs	SA193 B7	SA193 B7
Hex Nuts	SA194 2H	SA194 2H
Screen FLG	SA105	SS-304
Screen	SA240 304	SA240 316
Gasket	Red Rubber	Red Rubber

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Pressure Drop VS. Flow Rate



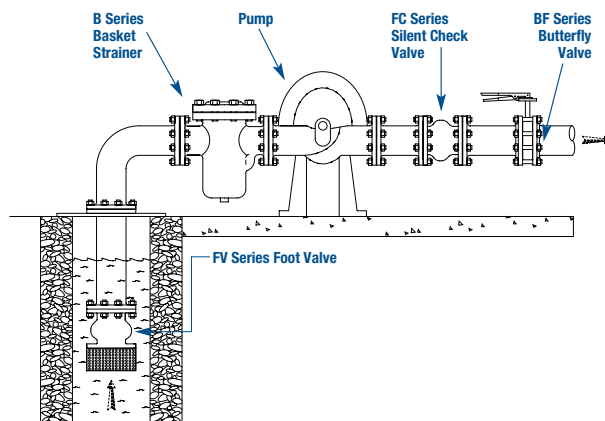
- For correct installation and maintenance, please see our I & M manual.
- Mount only in vertical position with upward flow.

* Pressure drop curves are based on water flow.

Foot Valve Installation

- Valves may be installed upward vertically only.
- Install the valve with proper positioning of the flow arrow.
- Support and align adjacent piping and the valve.
- Install lubricated flange bolts.
- Hand tighten, then torque the bolts using the cross-over flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.
- Valves must be mounted to ASME flanges with conventional flat face or ring gaskets.
- Do not install foot valve directly against another valve whereby the check valve discharges downstream directly into the valve.
- Do not install the valve whereby it directly discharges downstream into a tee or elbow fitting.

- These valves are not suggested for installation in sewage ejector piping.
- Never lift the valve by the bronze or stainless steel trim.



Precautions

- Individuals performing removal and disassembly should be provided with suitable protection from possible hazardous liquids.
- Do not install foot valve directly against another valve whereby the foot valve discharges downstream directly into the valve.

- Foot valves are not recommended for installation in sewage ejector piping.
- Prior to disassembly, the valve must first be isolated from the system's (electrically isolated pump) pressure and flow.

Maintenance

- Individuals performing removal and disassembly should be provided with suitable protection from possibly hazardous liquids.
- Before disassembly, valve must first be isolated from system pressure and flow.
- To replace screen remove two screen retainer bolts, replace the screen and reassemble retainer bolts.

- To replace gasket, first dismantle the screen and then remove nuts of the strainer flange studs and separate the gasket from foot valve. Replace the gasket and reassemble in the reverse order.
- To replace the valve seat, first dismantle the screen, screen flange and then remove two seat retaining countersunk screws and take out the valve seat. Replace the valve seat and reassemble in reverse order.
- Lubricate bolts/nuts, hand tighten, then torque the bolts using the crossover flange bolt-tightening method to load the bolts evenly, and eliminate concentrated stresses.

WARNING

This product operates in pipelines or with equipment that carries fluids and/or gasses at elevated temperatures and pressures. Caution should be taken to make sure that this equipment is installed correctly and inspected regularly. Caution should also be taken to protect personnel from fluid or gas leakage.

* Check valves should be installed, if possible, a minimum of 6 pipe diameters from other line elements, i.e. elbows, pipes, valves, etc.

- 1) **CANCELLATIONS & RESTOCKING POLICY:** Purchase orders once placed by Buyer and accepted by Seller can be cancelled only with Seller's written consent and upon terms which will save Seller from loss. No orders may be cancelled subsequent to delivery and/or shipment, whichever occurs first. As estimated actual damages, Buyer agrees to pay Seller the greater of Seller's actual costs incurred prior to cancellation plus a reasonable profit, or the following minimum cancellation charges: a) 20% of Order value if cancelled thirty (30) or more days prior to the original delivery/shipment date; b) 50% of the Order value if cancelled thereafter; or, c) 100% of the Order value of any non-standard items, which are items not built for stock or built to Buyer's specifications.
- 2) **RETURNED PRODUCT:** All sales are final; all custom products (non-stocking) are not subject to return, credit or refund. The return of obsolete and used Products shall not be permitted. The Purchaser shall not return Products without first obtaining Seller's written permission and shall be subject to a restocking charge. Products must be returned within 10 days after the date that written permission has been given. All transportation charges for any returned Products shall be paid by the Purchaser. Request to return Products must be accompanied by relevant customer order and Seller's invoice number(s). Final acceptance of returned Products is subject to examination and/or testing. Products will not be accepted for return or credit later than six (6) months after invoicing.
- 3) **PRICES:** Possession of price lists will not be accepted by the Seller as an obligation, or offer, to sell any goods listed therein. All prices contained in published price lists are subject to change without notice and supersede those of all previous lists. Prices quoted are based on current exchange rates; Seller reserves the right to adjust pricing to reflect the exchange rate in effect at the product receipt date to Seller's facility.
- 4) **LIQUIDATED DAMAGES:** Liquidated damages will not be accepted in the event of order placement.
- 5) **SALES TAXES, ETC.:** The Purchaser shall pay and be responsible for all provincial, local or federal sales, use or other taxes (including general sales or value added taxes) and customs duties now or hereinafter enacted which may be applicable to the sale of the Products or the importation of the Products to the destination specified by the Purchaser and which duties and taxes shall be the responsibility of the Purchaser.
- 6) **CREDIT APPROVAL:** Orders are accepted subject to satisfactory credit approval. Pending credit approval, delivery may be delayed without liability to Seller.
- 7) **TERMS OF PAYMENT:** The terms of payment for Products purchased pursuant to this Agreement are (I) upon acceptance of the purchase order a deposit in such amount as may be set out in the Seller's written acceptance notice and (II) the balance within 30 days from the date of invoice. Any invoice amount which is not paid when due shall bear interest at the rate of one and one-half (1 ½%) percent per month until paid in full.

The Purchaser agrees that it will not have any rights of set off against or deduction from the purchase price for the Products payable by the Purchaser pursuant to this Agreement. The Purchaser grants to Seller a purchase money security interest in all Products delivered pursuant to this Agreement and all proceeds thereof (whether cash or non-cash and including, without limitation, accounts, instruments and chattel paper). Any failure by the Purchaser to pay the purchase price in full as provided in this Agreement shall constitute an event of default for purposes of said security interest. Upon the occurrence of any such default, Seller shall have all rights of a secured party after default under applicable law. Any repossession and removal of any Products shall be without prejudice to any of Seller's other remedies at law or in equity. The Purchaser agrees, without further consideration, at any time, to do or cause to be done, to execute and deliver, all such further acts and instruments (including, without limitation, financing statements approved for filing) as Seller may reasonably request in order to perfect Seller's security interest.
- 8) **DELIVERY DATE:** Seller will utilize reasonable best efforts to meet the delivery schedules stipulated in this Agreement. In the event the provisions of Section 14 hereof shall apply, the delivery date shall be extended by a number of days that is equal to the duration of the event or condition that is responsible for such delay.
- 9) **TITLE AND SHIPMENT:** All quotations and sales are FCA Loaded Truck ValvSource Warehouse (Inco Terms 2010) unless otherwise specified in writing and agreed by both parties. Seller's responsibility ceases upon delivery to carrier and title shall transfer and risk of loss shall be borne by Buyer at that point. Any expedited or other premium transportation charges requested by Buyer will be for the account of Buyer. Prices include domestic packing, blocked and strapped to open pallets and wrapped in Poly. No claims for price adjustments will be honored unless presented within six (6) months from date of invoice. All quotations are subject to change without notice and prior to sale of goods.
- 10) **INSPECTION BY PURCHASER:** All Products must be inspected by the Purchaser upon receipt and the Purchaser and Seller, collectively, agree to file appropriate claims with the carrier when there is evidence of shipping damage, either concealed or external. Claims for shortage or error in shipment or for damage other than shipping damage must be made within 5 days after receipt of shipment, failing which the Purchaser shall be deemed to have accepted the shipment.
- 11) **LIMITED WARRANTY:** Purchaser acknowledges that the Products are provided to the Purchaser subject only to the limited warranties provided by the manufacturer of the Products and are subject to all of the conditions, limitations and exclusions set out therein, all of which are hereby accepted by the Purchaser. The warranty exclusions include, without limitation, (I) any defects caused by faulty installation performed by Purchaser or third parties, (II) any damage caused by the contractors or tradesman of the Purchaser, (III) any damage caused by improper use or misuse, including exposure to excessive temperatures, moisture or cleaning agents and solvents and (IV) any damage caused during transportation or improper storage. Claims for warranty repairs and replacements must be made within the applicable time period described in the manufacturer's limited warranty. In no event shall Seller be liable for other than the repair or replacement of any defective Products. In no event shall Seller be liable for any damages, direct or indirect, special or consequential, including, without limitation, damages for lost profits, business interruption, or economic loss arising out of defects in the Products.
- 12) **EXCLUSION OF WARRANTIES:** Except as expressly set forth herein seller disclaims all warranties with regard to the products including, without limitation, all implied warranties of merchantability and fitness for a particular purpose.
- 13) **CATALOGUE AND OTHER PRINTED MATTER:** Seller's illustrations are representations of a certain size of each line of Product, but do not necessarily represent all sizes and materials in detail. Similarly, dimensions, weights and material information have been prepared with care, but their correctness is not guaranteed. Seller reserves the right to vary the designs and dimensions without notice.
- 14) **FORCE MAJEURE:** Any delay or failure of performance by Seller shall be excused if and to the extent caused, directly or indirectly, events beyond Seller's control including, without limitation, fire, flood earthquake, lightning, hurricane, explosion, accident or breakdown, acts of God, embargo, strike, labour dispute, labour trouble, lockout, shortage or control of power supply, shortage of supplies or raw materials, or any causes whether of the same kind as the causes enumerated before or not. Subject to any express provisions of this Agreement, any such causes of delay shall extend the time of performance by the length of delay occasioned thereby.
- 15) **NO WAIVER:** No waiver by Seller of any right hereunder or of any right granted in connection with a failure to perform or breach by the Purchaser shall be deemed as a waiver of any other right hereunder or of any right granted in connection with any other failure or breach by the Purchaser, whether of a similar nature or otherwise.
- 16) **NOTICE:** Any notice made under or in relation to this Agreement shall be sent to the addresses first above written or such other address as the intended recipient shall have previously designated by written notice, by postage prepaid registered mail or by telegram including telex, followed by a confirmation letter by postage prepaid and return receipt requested registered mail. The notice shall be deemed to be made on the fifth day following the date of mailing.
- 17) **ENTIRE AGREEMENT:** This Agreement contains the entire agreement and understanding of the parties hereto with respect to the subject matter of this Agreement, and supersedes all prior discussions, agreements, understandings of any and every nature, whether written or oral, between the parties with respect to the subject matter of this Agreement, and no condition, definition, warranty or representation other than those expressly provided for in this Agreement with respect to the subject matter of this Agreement shall be binding upon either party hereto.
- 18) **AMENDMENTS IN WRITING:** Any amendment, modification, change or alteration of this Agreement shall be made in writing which expressly refers to this Agreement and which is signed by a duly authorized officer or representative of each of the parties hereto.
- 19) **SEVERABILITY:** All provisions of this Agreement are severable and this Agreement shall be interpreted and enforced as if all completely invalid or unenforceable provisions were not contained herein. All partially valid and enforceable provisions shall be enforced to the extent they are valid and enforceable.
- 20) **NO AGENCY OR PARTNERSHIP:** Nothing herein contained shall be deemed or construed to constitute either party the agent or partner of the other. Neither party shall have any right, title or authority to enter into any contract, agreement or commitment on behalf of the other or to bind the other in any manner whatsoever.
- 21) **GOVERNING LAW:** This agreement shall be governed by and construed in accordance with the laws of the jurisdiction from which the products are shipped by the seller to the purchaser and the parties hereby attorn to the courts of such jurisdiction.
- 22) **ENUREMENT:** This Agreement shall enure to the benefit of and be binding upon the parties hereto and on their successors and permitted assigns.
- 23) **SELLER DEFINED:** For the purposes hereof, Seller means the Corporation listed as such on the front page of the Invoice or acceptance notice of which these terms and conditions of sale form a part.

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