



Ordering Information

FOOT VALVES

FOOT VALVES	PART NUMBER	FEATURES
Basic	3"	TVMY1400
	4"	TVMY1200
TYPE `C`*	3"	TVMY1400BC
	4"	TVMY1200BC

*Type `C` Valves are designed to comply with Regulation 6 (carriage of dangerous substances in road tankers and tank containers) of the Road Traffic regulations 1992.

All the above valves are fitted with 90° connectors as standard. For valves with straight connectors, add -1 to the part number.

Example: For 3" TYPE `C` valve with straight connector, order TVMY1400-1BC

JET SENSING UNITS

JET SPACING	PART NUMBER	USAGE
2"	TVMY1300	For use where the stall pressure of the pump unit is a minimum of 1.75 kg/cm ² (25 psi)
1½"	TVMY1300-1	For use where the stall pressure of the pump unit is a minimum of 1 kg/cm ² (15 psi)

Tank geometry / size can also affect the choice.

Jet sensor should be mounted near a tank manhole cover for servicing access

ANCILLARY EQUIPMENT

DESCRIPTION	PART NUMBER	USAGE
Deflector plate	TVMY1495	Helps prevent build-up of static at high input flow rates.
Pre-check valve	TVMZ2452	Provides functional check of Foot Valve from outside the tank.
½" Nylon Hose	RMPR849	Pressure Line
5/16" Nylon Hose	RMPR850	Return Pressure Line
1 1/8" Nitrile Rubber Hose	TVRZ1589	Anti-static Drain Line

The use of Avery Hardoll dry break couplings, including CCMY9000 Tank Unit, is recommended.

Jet Automatic Bottom Loading Equipment (JET A.B.L.E.)



- Effective overspill prevention
- Low capital and maintenance cost as gantries, platforms and swivel arms are not required
- No free fall of product
- Smooth valve closure to a preset fluid level
- Available with automatic vent actuation
- Minimum vehicle loading space required
- Simplicity of design and operation
- Type `C` complies with U.K. road traffic act (Road transport of dangerous substances)



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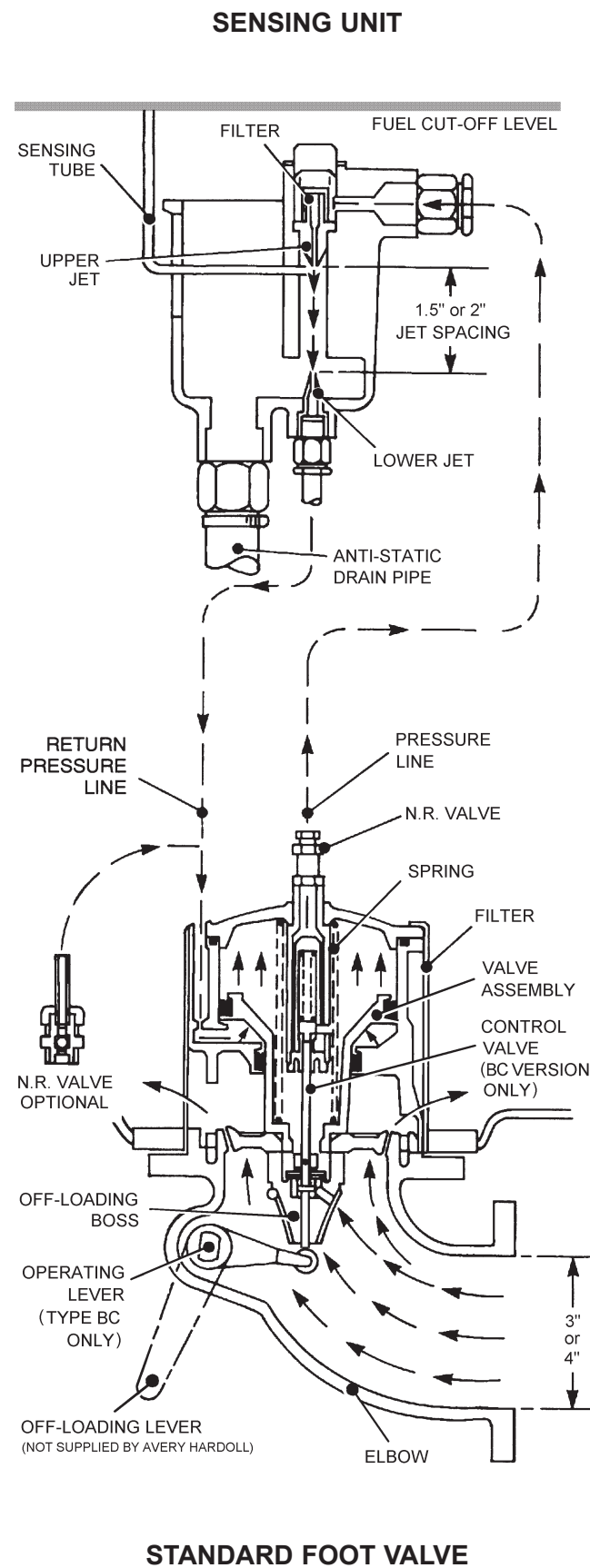
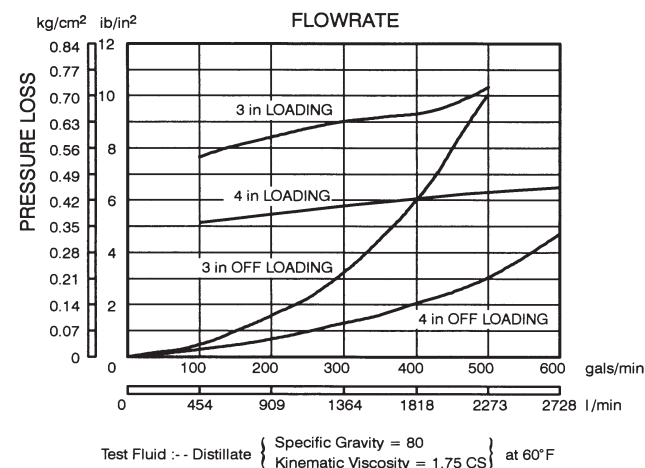
Operation

On the basic unit tank loading is achieved by the application of line pressure to the inlet elbow. Product at line pressure passes through the off-loading boss and filter assembly to the upper side of the valve assembly. At the same time product passes through the centre of the valve and, via a 1/2" nylon pressure line, to the upper jet of the sensing unit. The jet, which is sustained by air drawn through the sensing tube, passes through the lower jet and applies pressure to the underside of the valve assembly via a 5/16" nylon return pressure line. Pressure on the underside of the valve assembly now overcomes pressure on the upper side and spring pressure forcing the valve to open.

When the product level rises above the level of the lower jet the pressure to the underside of the valve is gradually reduced and therefore the valve starts to close until the sensing tube is covered and the valve is fully closed.

Type 'BC' Foot Valves will remain closed under input pressure. Controlled loading is achieved by operating the internal control valve using an external operating lever (not supplied). The same operating lever is used to open the Foot Valve for off loading.

Typical Pressure Loss Characteristics of 3" & 4" JET ABLE Foot Valves. (Under Loading and Unloading Conditions)



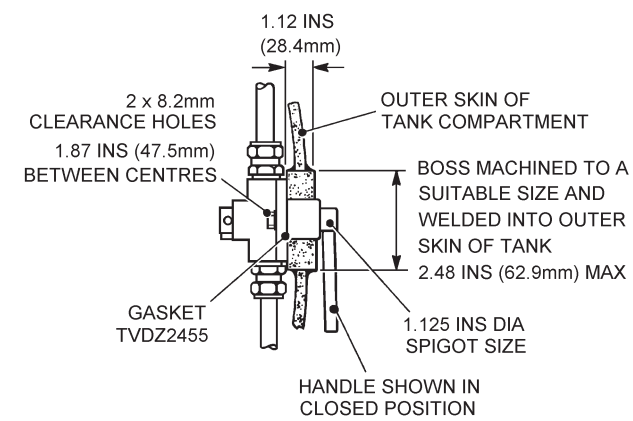
Specification & Dimensions

For further information refer to Avery Hardoll publication TP0006.

Installation Dimensions

Dim.	Foot Valve				Sensing Unit	
	3"		4"		Ins.	mm.
A	4.50	114.3	5.0	127.0	3.80	96.8
B	5.62	143.3	6.75	171.4	3.75	95.2
C	4.87	123.7	6.40	162.6	2.68	67.5
D	3.25	82.5	4.5	114.3	2.48	63.0
E	2.12	53.9	2.31	57.2	-	-
F	7.37	187.3	8.25	209.7	-	-
G	7.37A/C	187.3A/C	8.25	209.7	-	-

PRE-CHECK VALVE



TANK COMPARTMENT

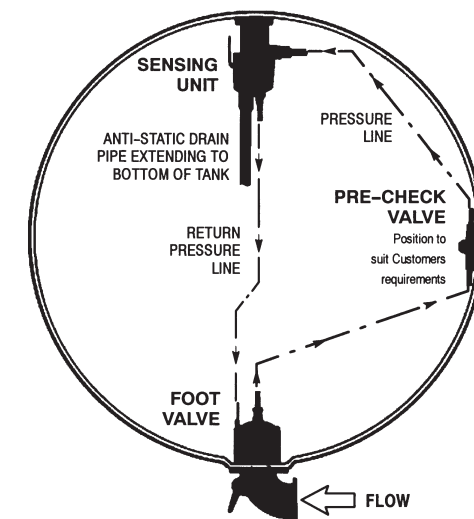


Diagram showing positions of units in tank compartment

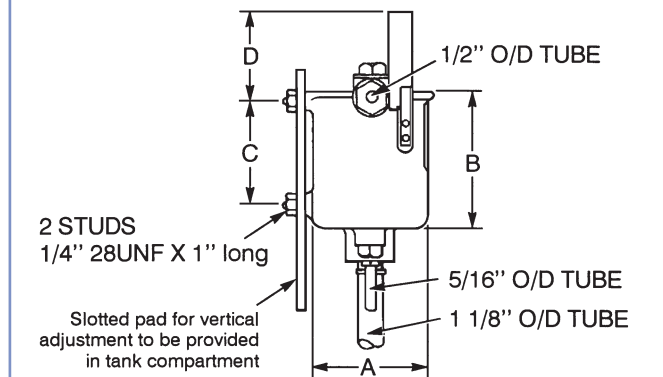
OPERATING PRESSURE

Minimum stall pressure of pump required to ensure that the correct fuel level cut off is reached :-
 1.5" Jet spacing - 1kg/sq cm (15 psi)
 2" Jet spacing - 1.75kg/sq cm (25 psi)

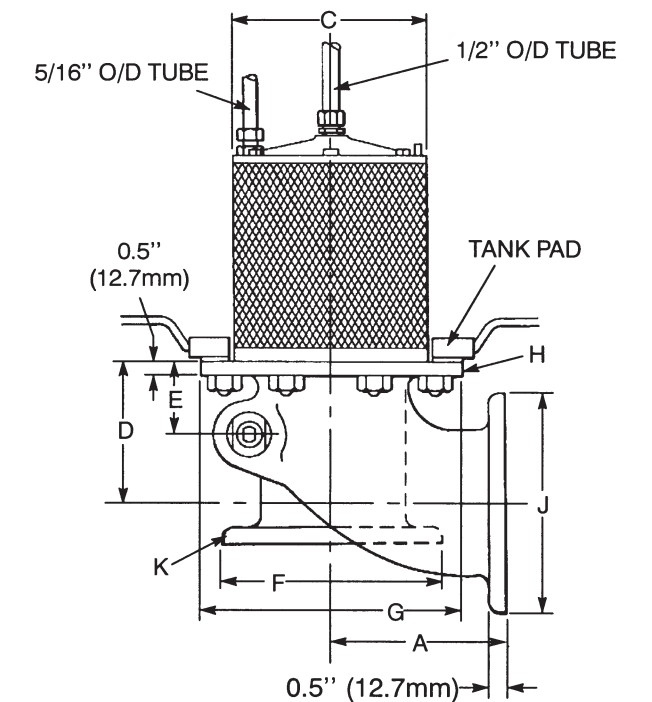
WEIGHTS

Foot Valve	3"	-	5 kg (11 lbs)
	4"	-	7.2kg(16lbs)
Sensing Unit	-	-	1.3 kg (3 lbs)

SENSING UNIT



FOOT VALVE



Flange Dimensions

Dim.	Valve Size	No. of Holes	Hole Size		P.C.D.	
			Ins.	mm.	Ins.	mm.
H	3"	6	9/16"	14.2	6.25	158.7
	4"	8	9/16"	14.2	7.25	184.0
J	3"	8	7/16"	11.1	4.87	123.7
	4"	8	7/16"	11.1	5.87	149.0
K	3"	8	3/8" UNF	-	4.87	123.7
	4"	8	7/16"	11.1	5.87	149.0

Flange dimensions are to TTMA TP No. 28