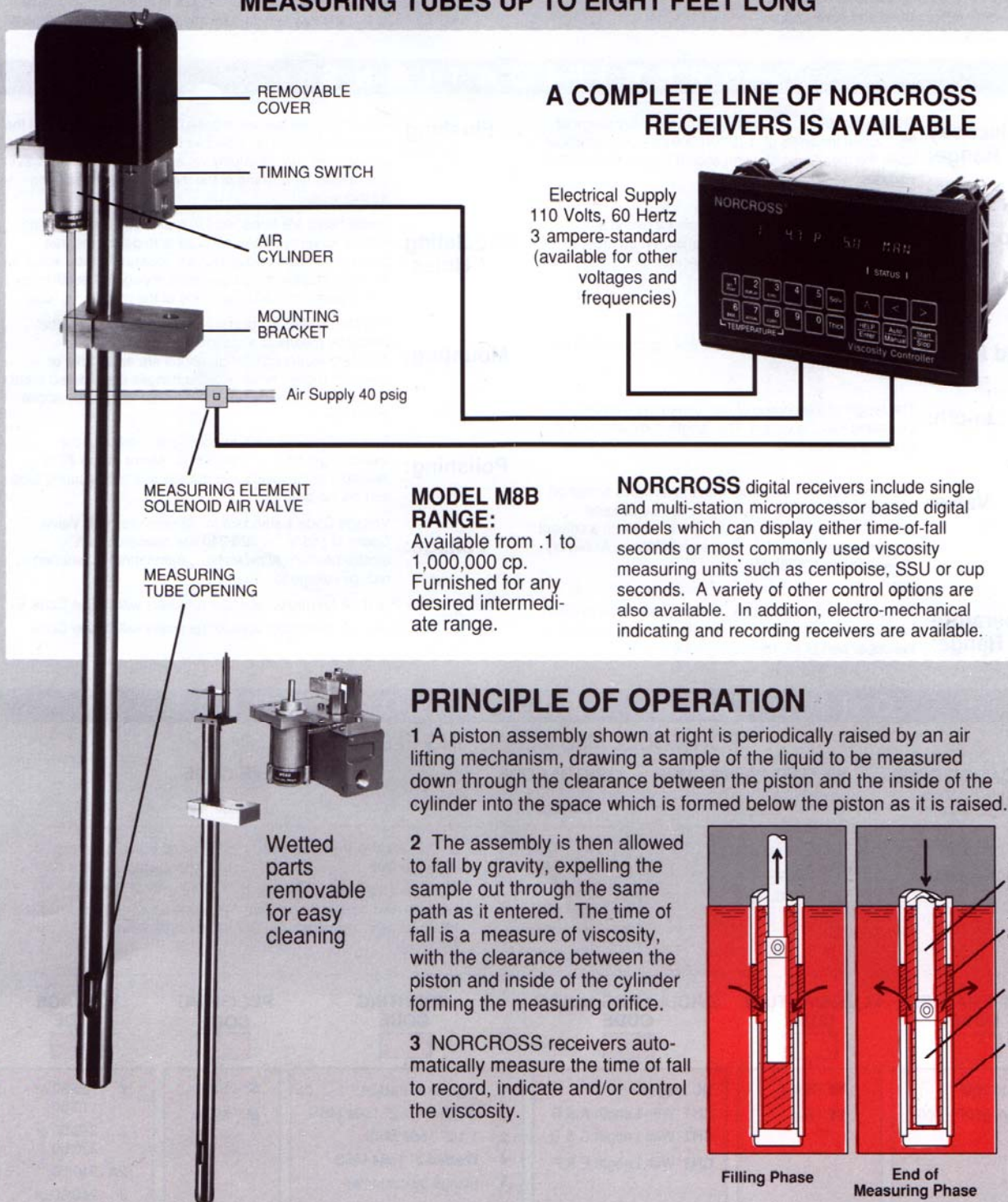


NORCROSS® Model M8B ATMOSPHERIC PRESSURE VISCOMETER

FOR GENERAL AND SOLVENT CONTROL APPLICATIONS FOR TANKS REQUIRING
MEASURING TUBES UP TO EIGHT FEET LONG



EASY TO INSTALL • CORROSION RESISTANT • EXPLOSION PROOF • EASY TO CLEAN

NORCROSS®

NORCROSS® MODEL M8B for ATMOSPHERIC PRESSURE APPLICATIONS

FEATURES

Uses a Proven Principle - Over four decades of experience with hundreds of installations in diversified industries on both Newtonian and non-Newtonian liquids.

Easy to Install - The measuring element can be installed on any tank, vessel, or in a sampling chamber and the receiver can be remotely located as desired.

Continuously Self-Cleaning - The reverse flushing from the normal up and down piston

motion provides effective self cleaning during operation. The element is designed for easy removal of wetted parts for cleaning when necessary.

Explosion Proof - Measuring element electrical components are furnished in housings approved by Underwriter's Laboratories for Class 1, Group D, Division 1 locations.

Corrosion Resistant - Wetted parts are of stainless steel (303 and 304 standard).

Repeatability and Sensitivity - Repeatability 1/4 percent, sensitivity is adjustable by suppressing zero.

Rugged and Dependable - The patented falling piston principle permits the design of a simple and dependable instrument that can be easily serviced by any maintenance department.

SPECIFICATIONS

Viscosity Range:

The Model M8B can be used over a viscosity range of 20:1 within the limits of .1 to 100,000 cp. On a practical basis the measuring element should be used over a 5:1 viscosity range.

Location:

This measuring element is available for use in a hazardous or non-hazardous location. When ordered for use in a hazardous location all electrical components will be UL Listed for Class 1, Division 1, Group C&D Locations.

Wetted Parts:

Wetted part construction SS303-304 standard. SS316 wetted parts available.

Length:

The length of the portion of the measuring element extending into the vessel. This length is dimension L on Drawing A-2863-MA.

Valve:

The Model M8B is available with the air valve furnished separately for remote mounting or can be ordered factory mounted to the measuring element with a solvent addition valve in the form of an Integral Valve Assembly (See Drawing A-4285-M).

Temperature Range:

The standard model can be used on vessels up to 250F. For higher temperature, radiating fins can be installed on the upper part of the measuring tube.

Flushing Tube:

A flushing tube can be installed in the upper portion of the measuring tube. This tube can be connected to a pressurized solvent supply via a manually operated valve. This allows for flushing of the inside of the tube during washdowns.

Circulating Holes:

These holes are furnished for applications not involving volatile solvents. Their purpose is to permit the free passage of liquid throughout the measuring tube which is effective in preventing liquid from drying and building up on the piston rod and the inside of the measuring tube.

Mounting:

The Model M8B is normally secured to the top of the vessel by means of a standard mounting bracket. Alternate mounting configurations are adjustable or welded flanges. When welded flanges are ordered there will be a pressure release hole drilled in the tube above the flange.

Polishing:

Standard procedure is to polish the outside of the measuring tube to a Satin Finish. Mirror Finish #7 is available of the inside and outside of the measuring tube and on the piston rod.

Voltage:

Voltage Code 1 standard for all receivers with Valve Codes S and V (for 220/240 vac operation with electromechanical receivers a transformer is required to reduce voltage to 120 vac).

Voltage Code 2 and 2A for microprocessor receivers with Valve Code S.
Voltage Code 3 and 3A for microprocessor receivers with Valve Code V1 and V4.

ORDERING SELECTION GUIDE

FOR MODEL M8B MEASURING ELEMENT

LOCATION CODE

M B

- 8 Hazardous
- 7 Non-Hazardous

WETTED PARTS CODE

- 1 SS 303-304
- 2 SS 316
- 3 Special

LENGTH CODE

- A 12"
- B 24"
- C 36"
- D 48"
- E 60"
- F 72"

VALVE CODE

S Only Air Valve supplied, as separate item.
V Integral Valve Assembly for use with electromechanical and MP90 receiver, see print A-4285-M.

V1 Integral Valve Assembly for use with microprocessor MP1-8 receiver, see print A-4285-M.
V4 Same as V1 except designed for water as solvent.

TEMPERATURE CODE

- 1 Up to 250F
- 2 From 250F - 600F

FLUSHING TUBE CODE

- NF None
- FT Yes

CIRCULATING HOLES CODE

- NC None
- CH1 With Length A & B
- CH2 With Length C & D
- CH3 With Length E & F

MOUNTING CODE

- 1 Standard Bracket.
- 2 Welded 1 1/2" 150# MSS
- 3 1 1/2" 150# MSS
- 4 Welded 2" 150# MSS
- 5 Flange by customer
- 6 Metric flange by Norcross

POLISHING CODE

- S Satin
- M Mirror

VOLTAGE CODE

- 1 120/60 or 110/50
- 2 240/60 or 220/50
- 2A 240/50
- 3 240/60 or 220/50
- 3A 240/50