

94510 Magnavent

The Shand & Jurs 94510 Magnavent is a pressure operated emergency vent designed specifically to meet the NFPA ruling on venting requirements for small storage tanks. An economically designed and priced unit, the principle of operation is based on a unique magnetic latch.

The pressure setting is accomplished by a permanent magnet attached to the base acting on a magnet plate on the hinged pallet assembly. As the pressure increases, the force required to overcome the magnetic attraction between the base and pallet assembly increases until the set pressure is reached. The setting is determined by the size and strength of the magnet. Because the force required to overcome the magnet is much greater than the force (or pressure) required to support the pallet assembly, the vent instantaneously goes to full open at the release pressure - there is no "simmering" or leakage as the tank pressure approaches set pressure.

Another innovation incorporated in the Magnavent is the Expand-a-Seal technology. The tank pressure forces the seal away from the pallet assembly and at the same time forces it against the seat surface of the base with the result that the higher the tank pressure, the tighter the seal becomes. Tests have shown that there is less than 0.5 cubic foot per hour leakage at high pressure right up to the release pressure. The Teflon Expanding Seal is an added benefit to those users who are concerned about conserving product. The performance of the expand-a-seal technology makes the 94510 an economical alternative to expensive pilot operated valves or rupture disks where blowdown is not a major concern.



Features

- Available in 4", 6", 8" & 10" sizes
- Inexpensive weights for standard settings
- Lightweight; saves shipping and installation costs
- Provides a tight seal up to set pressure using Expand-a-Seal technology.
- Magnetic latch assures instantaneous opening at release pressure
- Meets requirements of most small or large tanks
- Settings of 0.5 to 2.75 psig available

Specifications

Valve Size:

4", 6", 8" & 10"

Temperature Range:

-40°F to +140°F *Standard

Standard Settings:

0.5 psig thru 2.75 psig

Base & Arm:

Cast Aluminum, Steel or Stainless Steel

Pallet:

Aluminum or Stainless Steel

Pallet Seal:

FEP (Fluorinated Ethylene Propylene), FKM (Fluoroelastomer)
NBR (Nitrile-Butadiene), PFA (Fluoroplastic Film)

Magnet:

Rare-earth (Permanent Magnet)

Magnet Plate:

Electroless Nickel Plated Steel

Clamp Ring:

Aluminum, Stainless Steel

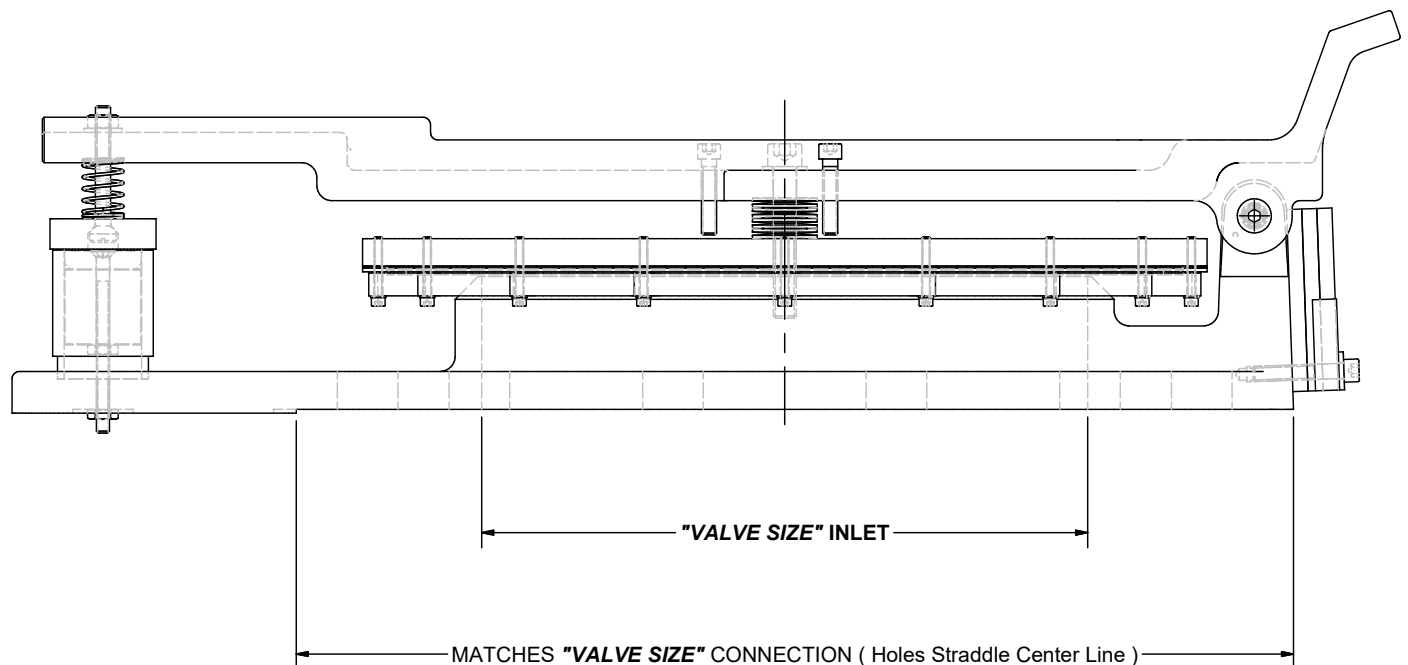
Bearings:

Nylon

Materials of construction in this equipment have been selected as representing the most suitable commercially available material for use in the service intended. However, they do not constitute a guarantee against corrosion since processes vary

from plant to plant and concentration of harmful fluids, gasses or solids vary from time to time in a given process. Empirical experience by users should be the final guide and alternate materials based on this are generally available.

Dimensions



All designs subject to change. Certified dimensions and specifications available upon request.

94510 Ordering Guide

Model Number Selection

The model number will consist of a base number **94510** followed by 7 digit numbers. These digits will represent 7 option tables.

94510 - AB - CD - EF - G

Ordering Information

Specify:

1. Model 94510 Magnavent (Pressure Only)
2. Body Material
3. Pressure Setting
4. Cleaning Requirements
5. Flange Style
6. CE for Ordinary EU Locations use Table E1
7. ATEX Certification for II 1 G Ex h II B T1...T6 Ga EU Locations, use Table E2
8. Accessory Security Seal, If Required



Table A - Material

Option A	Body Material
1	Aluminum
2	Steel
3	Stainless Steel

Table B - Size

Option B	Size
1	4"
2	6"
3	8"
4	10"

Table C - Cleaning

Option C	Cleaning
0	Normal Clean
1	LOX Clean

Table D - Set Pressure Range*

Option D	Settings (PSIG)
1	0.5
2	0.51 - 1.0
3	1.01 - 1.5
4	1.51 - 2.0
5	2.01 - 2.5
6	2.51 - 2.75

*Set point factory adjustable per order.

Table E - Approvals

Option E	Application
0	Standard
1	CE
2	ATEX

Table F - Flange Style

Option F	Flange Hole Pattern
0	ANSI 125/150lb. FF
1	EN1092-1 PN16 FF
2	JIS 10K FF

Table G - Soft Goods

Option G	Soft Goods Material
0	FEP
1	FKM
2	NBR
3	PFA

FEP = Fluorinated Ethylene Propylene
 FKM = Fluoroelastomer
 NBR = Nitrile-Butadiene
 PFA = Fluoroplastic Film

Accessories

Part Number	Description
233-53	Security Seal