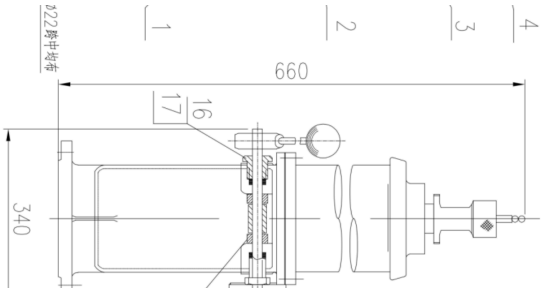
ECO-TYPE GAUGING HATCH

Vapour-tight gauging port for atmospheric storage tanks · DN200 · ASME B16.5 Class 150 RF

SIZE	FLANGE	WETTED TRIM	TIGHTNESS
DN200 (8")	CL150 RF	SS304 / PTFE	+6 000 Pa



Outside elevation — 660 mm overall length, 340 mm height

INTRODUCTION

The WANAN Eco-Type Gauging Hatch is a vapour-tight gauging port for atmospheric storage tanks. It allows the operator to gauge liquid level, measure water bottom, take temperature and draw samples without releasing product vapour to atmosphere, protecting both the environment and the operating personnel from hydrocarbon exposure.

A spring-assisted, counter-weighted cover opens through a 90° arc and stays open during gauging. The PTFE seat and cover gasket form a tight seal when closed. A guide slot keeps the gauging tape centred, and an SS304 chain retains the cover. All wetted components are stainless steel or PTFE, making the hatch suitable for corrosive and high-purity service.

APPLICATION

Fixed roof and floating roof storage tanks handling crude oil, gasoline, diesel, jet fuel, solvents, aromatics and other volatile products. Tank farms, refineries, terminals and petrochemical plants — for new tank construction as well as replacement of open gauging hatches on existing tanks.

KEY FEATURES

1. **Vapour-tight design** — factory tightness-tested at +6 000 Pa, no leakage permitted
2. **PTFE seat and cover gasket** — resistant to hydrocarbons, aromatics and alcohols
3. **Spring-assisted cover** — counterweight and SS304 chain hold the cover open through 90°
4. **Guide slot** — keeps the gauging tape centred for accurate level and water-bottom readings
5. **SS304 wetted trim** — ductile iron body for strength and economy
6. **ASME B16.5 Class 150 RF flange** — 8-Φ22 bolt holes on standard centres
7. **Low profile** — 340 mm overall height, 660 mm overall length

INSTALLATION

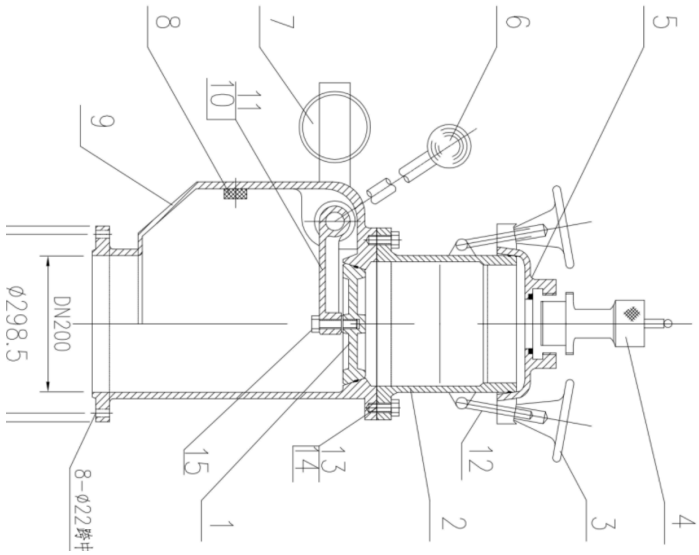
1. Mount the hatch vertically on the tank roof gauging nozzle — mating flange ASME B16.5 Class 150 RF, DN200.
2. Tighten the eight bolts evenly in a cross pattern so the PTFE gasket is compressed uniformly.
3. Check that the cover swings freely through its full arc and that the chain is correctly anchored.

OPERATION

1. Release the latch and lift the cover; the counterweight holds it open.
2. Lower the gauging tape or sampling bottle through the slot — the guide slot keeps it centred.
3. Gauge level, measure water bottom, take temperature or draw a sample as required.
4. Close the cover firmly after each operation to maintain the vapour seal.

COMPONENT MATERIAL & DIMENSIONS

Eco-Type Gauging Hatch · DN200 · drawing reference HN-2021-A



Section view — item numbers refer to the component material table below

ITEM	COMPONENT	MATERIAL	ITEM	COMPONENT	MATERIAL
1	Body (lower)	Ductile iron QT8	10	Valve plug (with O-ring, Φ10)	Ductile iron QT8
2	Gasket	PTFE	11	Guide plate	SS304
3	Handwheel	Ductile iron QT8	12	Swivel shaft	SS304
4	Cover seal	PTFE	13	Wheel axle M12×90	Steel, zinc plated
5	Seal cover	SS304	14	Retaining ring	SS304
6	Cover plate	Ductile iron QT8	15	Pin Φ4×20	SS304
7	Slide slot	SS304	16	Chain	SS304
8	Lifting spindle	SS304	17	Plug	SS304
9	Swivel shaft	Ductile iron QT8	18	Housing (2 off)	SS304

Standard connection ASME B16.5 Class 150 RF. Other flange standards (JIS, DIN, EN) and materials on request.

DIMENSION TABLE

Size	Flange	Cover OD	Neck OD	Bolt holes	L	H
DN200 (8")	CL150 RF	Φ345	Φ298.5	8-Φ22	660	340

Dimensions in millimetres. L = overall length, H = overall height. Other sizes available on request.

TECHNICAL REQUIREMENTS

1. Every hatch is subjected to a tightness test at +6 000 Pa before delivery; no leakage is acceptable.
2. Flange drilling to ASME B16.5-2009, Class 150, raised face.
3. Body castings are free from porosity, sand inclusion and cracks; machined surfaces are deburred.
4. Other sizes, materials and flange standards are available on request.

ORDERING

Eco-type gauging hatch — DN200, ASME B16.5 Class 150 RF, SS304 trim.

Quote reference: drawing HN-2021-A.

CONTACT

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