

WARNER LEWIS

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HYDRANT HIGH/LOW POINT ASSEMBLY

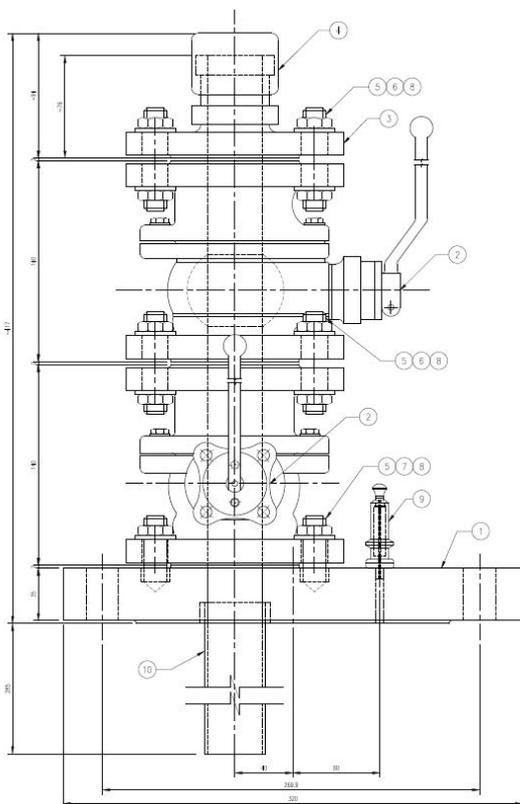
WL 4231

The Warner Lewis model WL4231 hydrant high/low point assembly is designed for use for hydrant low point draining/sampling and high point venting. Normally fitted into an 18" hydrant pit box with a 6" ASME Class #300 RF riser flange. Two 1 1/2" fire safe ball valves are mounted to a specially adapted 6" ASME Class #300 RF Stainless Steel base flange. The assembly terminated in a 2" self sealing adaptor for connection to the draining/venting apparatus.

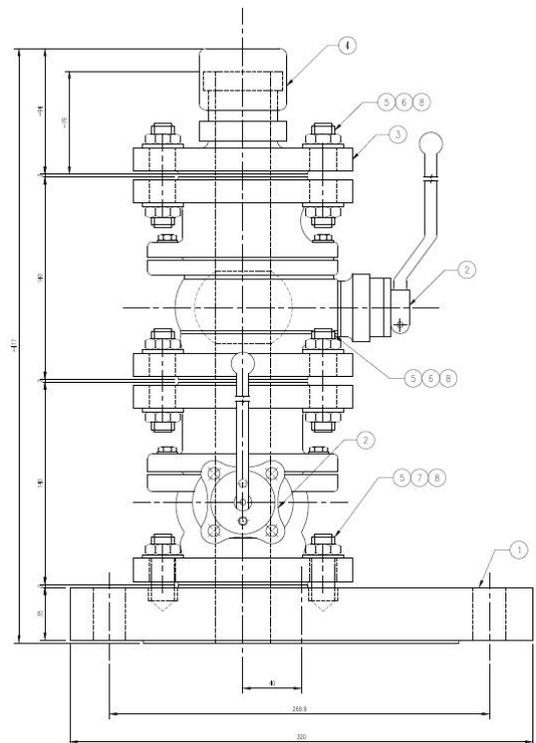
The Low Point Drain Assembly is fitted with a pressure relief valve with manual bleed facility to allow release of any entrapped air.

The pressure relief valve can also be added to the High Point Vent Assembly if required.

WL 4231 Option 1



WL 4231 Option 2

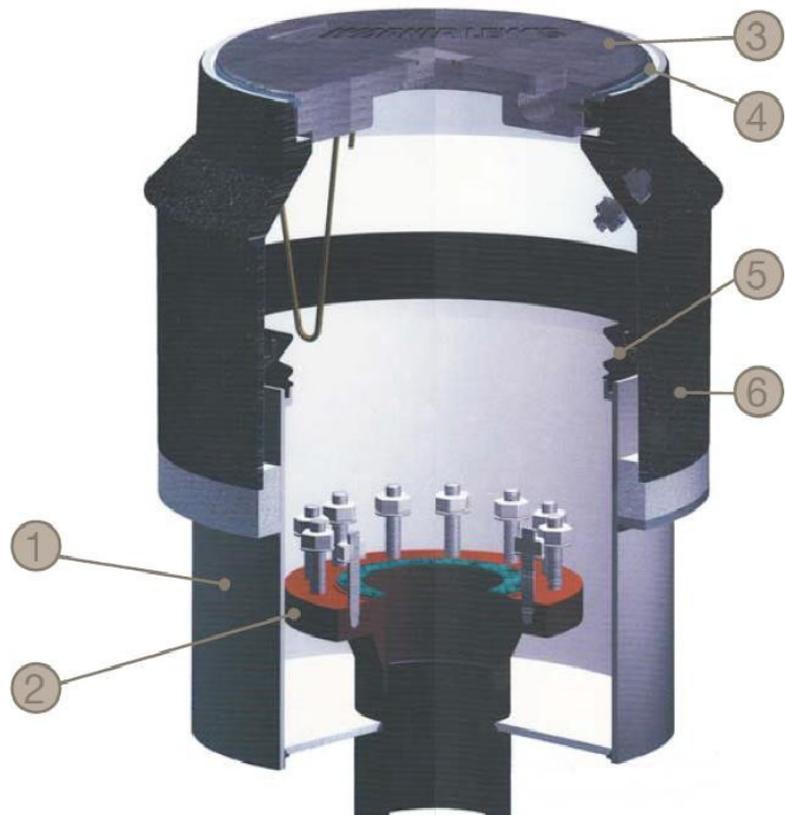


ITEM NO.	Q'TY	UNITS	DESCRIPTION	
1	1	EA.	MODIFIED BLIND FLANGE	6" ASME 300LB RF
2	2	EA.	FLANGED BALL VALVES	1 1/2" PN40, FB, TWO-PIECE BODY, FLOATING BALL, PTFE OR VITON SEAT, ANTISTATIC, FIRESAFE, 140 MM END-TO-END
3	1	EA.	DRY DISCONNECT COUPLING	2" TANK UNIT ADAPTOR WITH 1 1/2" PN40 RF FLANGE CONNECTION, FPM SEAL
4	1	EA.	DUST CAP	2" DUST CAP FOR TANK UNIT, FPM SEAL
5	3	EA.	GASKETS	2MM THK., COMPRESSED NON-ASBESTOS FIBRE, OIL RESISTANT, FLAT RING GASKET, SUITABLE FOR 1 1/2" PN40 RF FLANGE
6	8	SET	STUD BOLTS W/ NUTS	Ø2X85MM LONG WITH TWO NUTS
7	4	SET	STUD BOLTS W/ NUTS	Ø2X55MM LONG WITH ONE NUTS
8	20	EA.	WASHERS	3MM THK., STAINLESS STEEL WASHERS FOR 3/8" BOLTS
9	1	EA.	SAFETY RELIEF VALVE	SAFETY RELIEF VALVE WITH RELIEF GEAR FOR SET PRESSURES FROM 0.7 TO 19 BAR, SS316 BODY & SEAT, VITON SEAL, 1/2" UNF THREADED CONNECTION
10	300	MM	DRAIN PIPE	1 1/2" PIPE, SCH10S, PE

ITEM NO.	Q'TY	UNITS	DESCRIPTION	
1	1	EA.	MODIFIED BLIND FLANGE	6" ASME 300LB RF
2	2	EA.	FLANGED BALL VALVES	1 1/2" PN40, FB, TWO-PIECE BODY, FLOATING BALL, PTFE OR VITON SEAT, ANTISTATIC, FIRESAFE, 140 MM END-TO-END
3	1	EA.	DRY DISCONNECT COUPLING	2" TANK UNIT ADAPTOR WITH 1 1/2" PN40 RF FLANGE CONNECTION, FPM SEAL
4	1	EA.	DUST CAP	2" DUST CAP FOR TANK UNIT, FPM SEAL
5	3	EA.	GASKETS	2MM THK., COMPRESSED NON-ASBESTOS FIBRE, OIL RESISTANT, FLAT RING GASKET, SUITABLE FOR 1 1/2" PN40 RF FLANGE
6	8	SET	STUD BOLTS W/ NUTS	Ø2X85MM LONG WITH TWO NUTS
7	4	SET	STUD BOLTS W/ NUTS	Ø2X55MM LONG WITH ONE NUTS
8	20	EA.	WASHERS	3MM THK., STAINLESS STEEL WASHERS FOR 3/8" BOLTS

WARNER LEWIS ENVIRONMENTAL HYDRANT PIT BOX

WL 5917



Product Features:

1. LOWER HOUSING

Welded carbon steel design, with vertical pipe inlet and riser flange 6" ASME Class #300. The bottom plate is welded in with a slope for easy cleaning.

2. 6" ASME CLASS #300 RISER FLANGE

Made of carbon steel, epoxy coated in accordance with MIL-C 4556E, with stud bolts, hex nuts and washer, made of yellow anodized carbon steel.

3. LIGHT WEIGHT ALUMINIUM COVER

Light weight pit lid, made of aluminium-alloy qualified to EN124 F900 designed to withstand aircraft wheel loads, with retaining cable, secured with swivel fitting to prevent twisting and kinking.

4. COVER SEAL

Fuel resistant pit lid seal.

5. HOUSING BELLOWS SEAL

Allows movement between 20mm horizontal and 40mm vertical. The sealing is fixed in a groove in both the upper and the lower housing—there is no metallic contact between the upper and lower housing, therefore the lower housing can be included in a cathodic protection system.

6. UPPER HOUSING

Made of spheroidal graphite cast iron, internally white epoxy coated in accordance with MIL-C 4556E, externally coated with black coal tar epoxy.

WARNER LEWIS ENVIRONMENTAL HYDRANT PIT BOX WL 5917

The Warner Lewis model WL5917 is an environmentally friendly 18" hydrant pit box suitable for API/IP hydrant pit valves. It is designed to ensure no leakage of fuel into the ground, whilst allowing horizontal and vertical movement.

The spheroidal graphite cast iron outer housing, is internally epoxy coated in white Amercoat 56C in accordance with MIL-C 4556D and externally coated in 'Intertar', intertuf coal tar epoxy black paint. The inner housing is a welded steel construction with a welded in vertical riser pipe, coated internally in Copon epoxy paint. 6" ASME Class #300 riser flange, complete with studs, nuts and washers. A sealing bellows between the outer and inner box allows movement between the boxes, +35mm in the horizontal and vertical plain. Internally epoxy coated in white Amercoat 56C in accordance with MIL-C 4556D and externally coated in 'Intertar', intertuf coal tar epoxy black paint. There is no metallic contact between the outer and inner box.

NDT examination is carried out on all welds, dye penetrant or x-ray where appropriate. 18" diameter pit lid of aluminium alloy designed to withstand aircraft tyre load. Non-slip surface. Nitrile Buna "N" cover seal. Underside of lid shaped to provide ground clearance to prevent damage to integral polyamide retaining cable. The cable is secured to the lid with a swivel joint to prevent twisting and kinking. Optional internal fixing for earth strap.



REFERENCES

Some references of installed Warner Lewis Hydrant Pit Boxes at major International Airports.

Johannesburg	South Africa
Frankfurt Rhein/Main	Germany
Munich II	Germany
London, Heathrow	Great Britain
London, Gatwick	Great Britain
Manchester	Great Britain
Vienna	Austria
Rome, Fiumichino	Italy
Milan, Malpensa	Italy
Copenhagen	Denmark
Dubai, International	U.A.E.
Sharjah	U.A.E.
Bahrain	Bahrain
Warsaw	Poland
Kuwait	Kuwait
Nairobi	Kenya
Mombasa	Kenya
Lagos	Nigeria
Congo, Brazzaville	Congo
Calro	Egypt
Luxor	Egypt
Sanderstroemfjord	Greenland
Changi	Singapore
Lamentin Martinique	Caribbean
Batam, Island Hang Nadim Airport	Indonesia
Macao	Macao
Hurghada	Egypt
Madrid, Barajas	Spain
Barcelona	Spain
Doha, Hamad International	Qatar
Stockholm, Arlanda	Sweden

Result of the assessment

The tested Pit Box Lids have passed the load capacity test for group 6 class F900 according to DIN EN 124, part 1, number 8.2.

This means that the tested Pit Box Lids according to drawing no. 3014435 made of AlCu4MgTi - T4 according to DIN EN 1706 are suitable for the serial production according to DIN EN 124, part 1, group 6, class F900.

HYDRANT ISOLATION VALVE

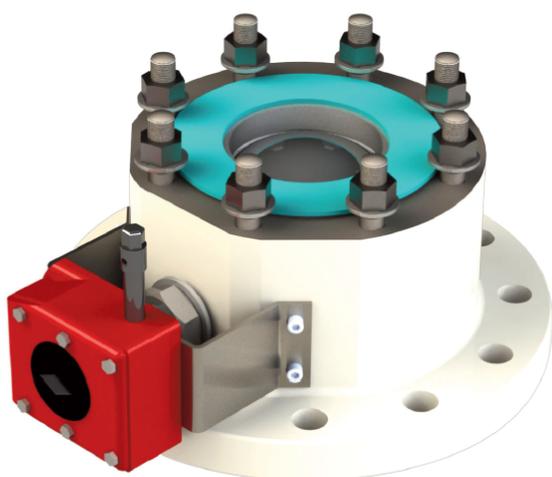
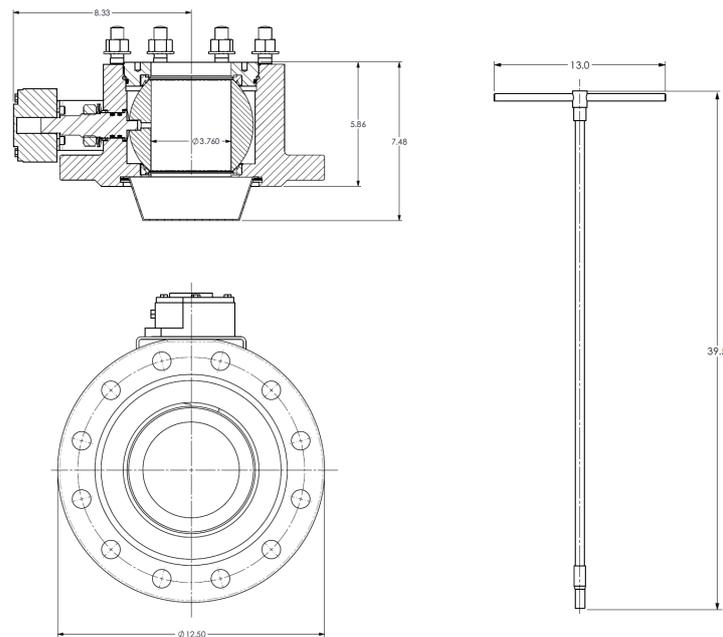
WL5279

The 355GF Hydrant Isolation Valve has a 6-inch ASME Class #300 RF inlet flange and a 4-inch Class #150 outlet flange. There is a stone guard installed at the inlet of the isolation valve that protects the isolation valve and hydrant pit valve. The overall height of 6-inches easily replaces existing non-isolating adapter spools. For new installations, specify the WL5279 Hydrant Isolation Valve along with the Cla-Val 352GF Hydrant Pit Valve to achieve the standard 18-inch high assembly specification requirement.

The 5279 Hydrant Isolation Valve has a stainless steel ball valve and an epoxy coated ductile iron body. The ball valve is operated by a removal T-Bar tool from the top of the pit box. It closes the valve through a gear box which has an open/closed indication.

The 5279 Hydrant Isolation Valve is Fire Safe qualified to API 607.

Dimensions (inches)



- Stainless Steel "Full-Bore" Valve
- Epoxy Coated Ductile Iron Body
- Inlet Stone Guard protects Hydrant Pit Valve
- 6-inch ASME Class #300 inlet x 4-inch Class #150 outlet
- Allows for complete removal of pit valve while hydrant system is in operation
- Qualified to API 607