

HU4000 SERIES HOSE END PRESSURE REFUELLING COUPLING



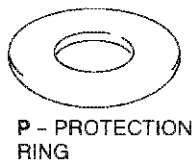
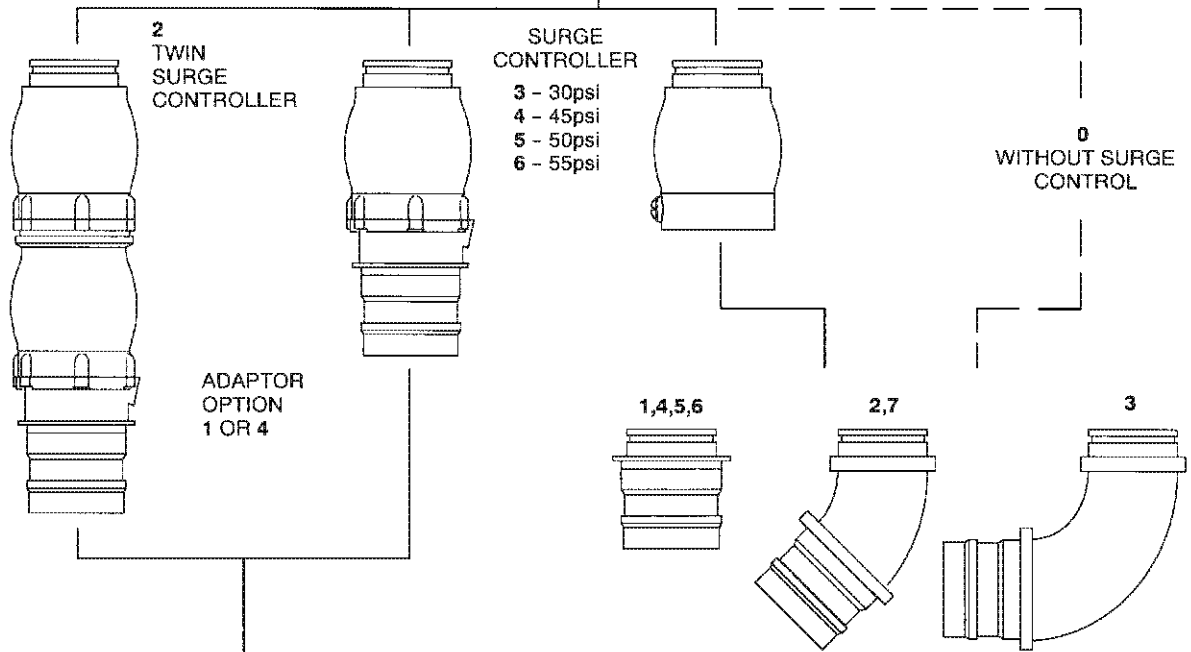
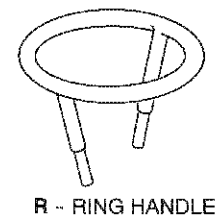
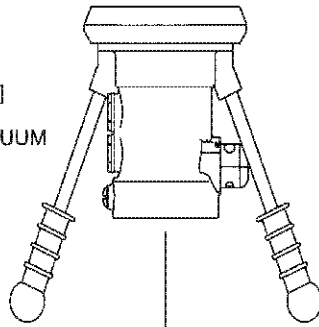
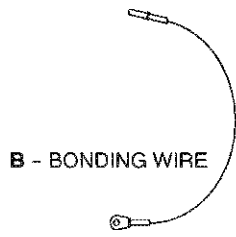
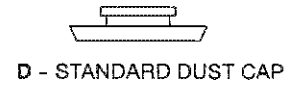
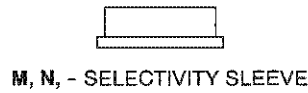
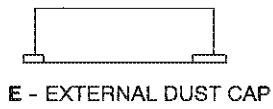
- Unique internal safety interlock integral to the poppet
- Six slot engagement for easier coupling location
- Independent swivel improves ease of coupling
- Improved choice of operation with three handle options
- Nose seal replaceable without depressurising
- Well proven Mk six pressure controller
- Suitable for all current aircraft types
- Robust, lightweight construction

Proven Design Features Retained

Safety in refuelling is of paramount importance. Avery-Hardoll's unique internal safety interlock utilises the poppet as an integral part of the interlock system and is therefore not reliant on secondary interlock components. The coupling is unaffected by wear in the aircraft unit slots and tolerates a high level of wear to the lugs. In addition the design of the HU4000 does not cause excessive wear to the aircraft unit.

HU4000 series design includes a wider range of hose adaptor designs, relocation of the swivels, three new handle types, and new operating lever design.

Spares and service requirements are also important in this change of design. Ease of maintenance and spares compatibility with its predecessor has been retained.



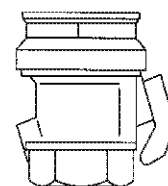
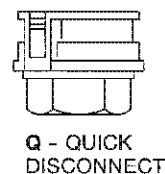
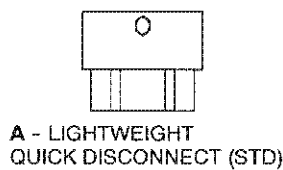
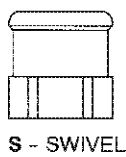
100 MESH STRAINER (STANDARD ON A,Q,V,L)



or 60 MESH ALTERNATIVE (X)

ADAPTOR PROFILE OPTIONS	
1	AH STANDARD
2	AH 45° ELBOW
3	AH 90° ELBOW
4	FR PROFILE
5	THIEM PROFILE
6	CARTER PROFILE
7	CARTER PROFILE 45° ELBOW

V, L - QUICK DISCONNECT ISOLATING VALVE



SPECIFICATION

PRESSURE RATING

Max Working Pressure: 10.3 bar(150psi)
 Test Pressure: 15.5 bar (225 psi)
 Max. Flow Rate: 2275 lpm
 500 lgpm
 600 US gpm

PRESSURE DROP (including Aircraft Adaptor)

Nozzle with Quick-Disconnect and 100 mesh strainer
 at 1895 lpm 1.03 bar (14.9 psi)

As above plus Surge-Controller 1.79 bar (26.0 psi)

STRENGTH

Although over a kilo lighter than its predecessor the HU4000 retains its basic strength and has been rigorously tested to ensure safe operation under normal operating conditions.

COMPATIBILITY

British Standard Aerospace Specification 4C14
 International Standards Organisation ISO R45NATO
 Stanag 3105 Designed to meet the requirements of
 MIL-N-5877E

LENGTH

Complete nozzle, surge controller
 and quick disconnect 370 mm (14.6 in.)

MATERIALS

Those in contact with the fuel are anodised
 aluminium alloy, stainless steel, PTFE Viton and high
 nitrile rubber.

OPERATING TEMPERATURES

-20 deg C to 60 deg C (-4 deg F to +140 deg F)

COLD WEATHER REQUIREMENTS

Special seal kits available for temperatures down to
 -40°C.

WEIGHTS

COMPLETE NOZZLE, SURGE CONTROLLER AND LIGHT WEIGHT QUICK DISCONNECT

5.3Kg (11.6 lb)

NOZZLE ASSY

2Kg 50g

HOSE CONNECTOR ASSY

640g

SURGE CONTROL/ADAPTOR

1Kg 570g

STICK HANDLE ASSY (1 SET)

680g

DUST CAP ASSY

200g

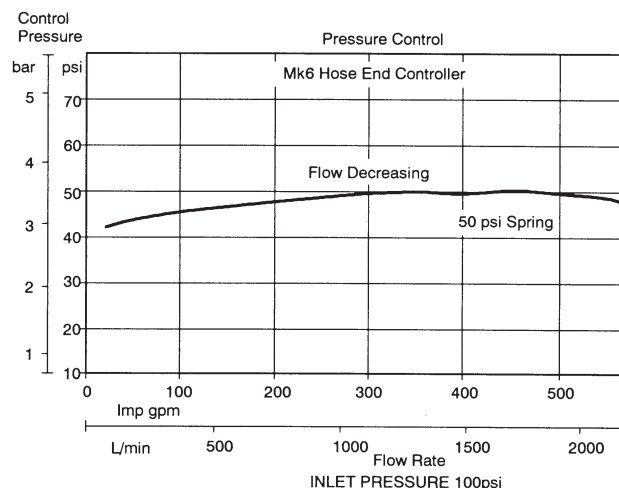
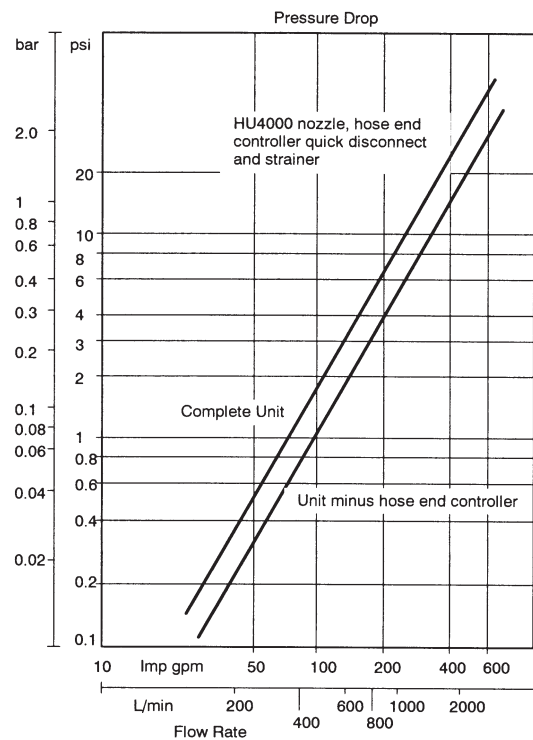
PROTECTION RING

360g

VACUUM RELIEF VALVE

60g

TYPICAL PERFORMANCE CURVES



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