

HU4000M2 series hose end pressure refuelling coupling



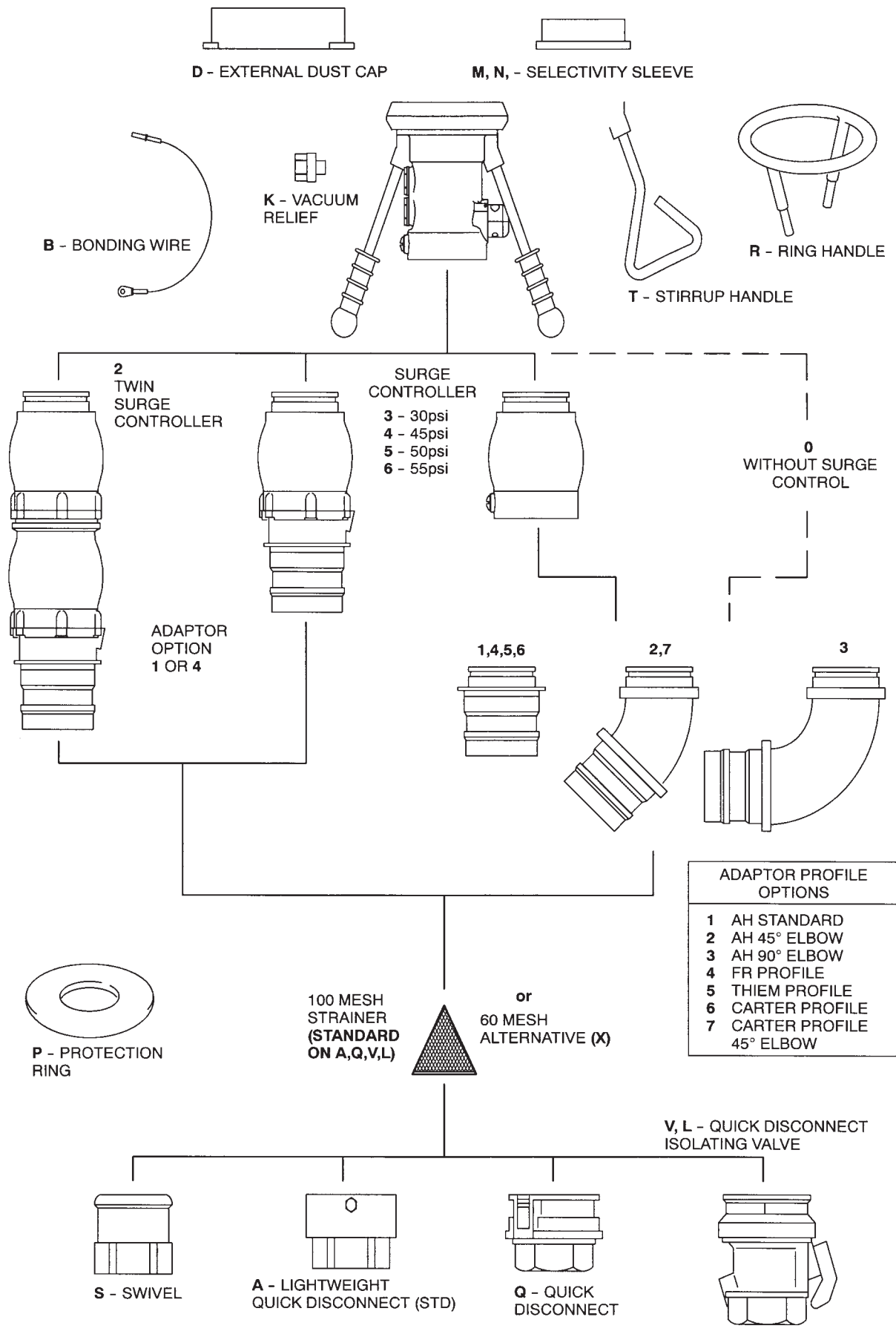
Proven Design Features Retained

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 HU4000M2 does not cause excessive wear to the aircraft unit.

The design includes a wider range of hose adaptor designs, relocation of the swivels, three 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.

- 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
- Improved nose seal design
- Well proven Mk 6 pressure controller
- Suitable for all current aircraft types
- Robust, lightweight construction



D - EXTERNAL DUST CAP

M, N, - SELECTIVITY SLEEVE

B - BONDING WIRE

K - VACUUM RELIEF

R - RING HANDLE

T - STIRRUP HANDLE

2 TWIN SURGE CONTROLLER

SURGE CONTROLLER

- 3 - 30psi
- 4 - 45psi
- 5 - 50psi
- 6 - 55psi

0 WITHOUT SURGE CONTROL

ADAPTOR OPTION 1 OR 4

1,4,5,6

2,7

3

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

P - PROTECTION RING

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

or 60 MESH ALTERNATIVE (X)

V, L - QUICK DISCONNECT ISOLATING VALVE

S - SWIVEL

A - LIGHTWEIGHT QUICK DISCONNECT (STD)

Q - QUICK DISCONNECT

Pressure rating

Max Working Pressure: 10.3 bar (150psi)
 Test Pressure: 15.5 bar (225 psi)
 Max. Flow Rate: 2275 lpm
 500 l gpm
 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 R45
 NATO 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 conditions

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

Weights

COMPLETE NOZZLE, SURGE CONTROLLER AND LIGHT WEIGHT QUICK DISCONNECT	5.3Kg (11.6lb)
NOZZLE ASSY	2Kg 50g
HOSE CONNECTOR ASSY	640g
SURGE CONTROL/ADAPTOR	1Kg 570g

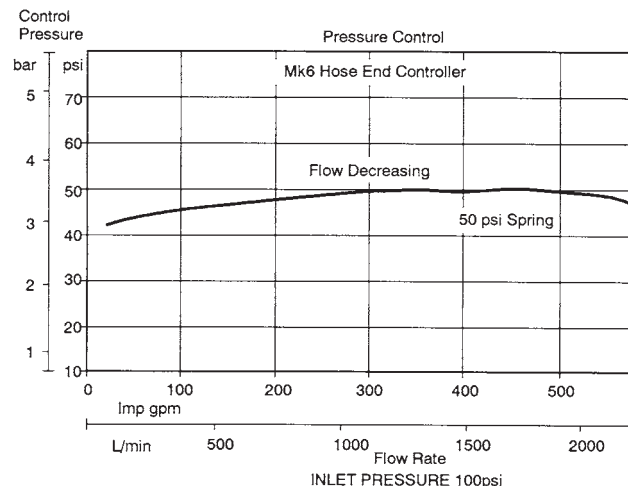
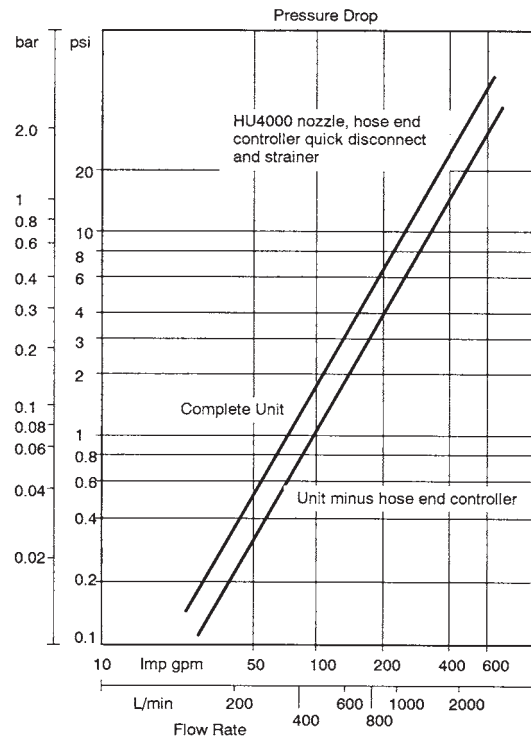
STICK HANDLE ASSY (1 SET)	680g
DUST CAP ASSY	200g
PROTECTION RING	360g
VACUUM RELIEF VALVE	60g

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PRO CPL 51- Issue 1

Typical performance curves



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