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 4C14International Standards Organisation ISO R45NATO Stanag 3105Designed to meet the requirements of MIL-N-5877E

LENGTH

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

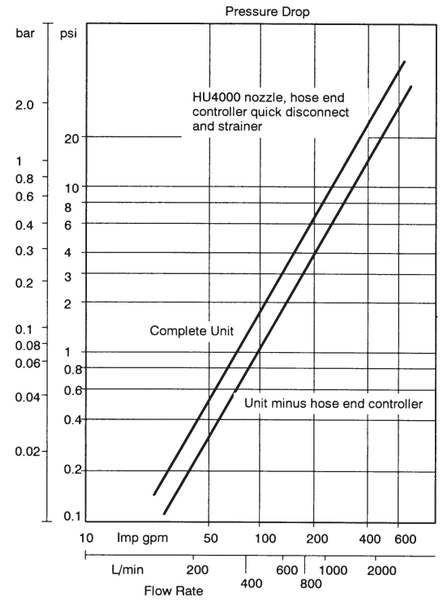
MATERIALS

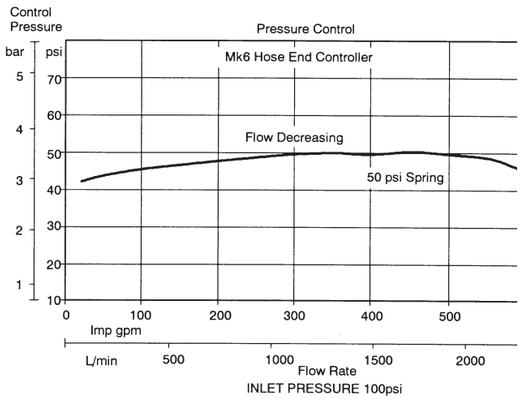
Those in contact with the fuel are anodised aluminium alloy, stainless steel, PTFE Viton and high nitrile rubber.

COLD WEATHER REQUIREMENTS

Special seal kits available for temperatures -40o to -60oC

TYPICAL PERFORMANCE CURVES





WEIGHTS

COMPLETE NOZZLE, SURGE CONTROLLER AND LIGHT WEIGHT QUICK DISCONNECT	5.3Kg (11.6lb)	STICK HANDLE ASSY (1 SET)	680g
NOZZLE ASSY	2Kg 50g	DUST CAP ASSY	200g
HOSE CONNECTOR ASSY	640g	PROTECTION RING	360g
SURGE CONTROL/ADAPTOR	1Kg 570g	VACUUM RELIEF VALVE	60g

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*A **Flight Refuelling** company*

Incorporating AVERY HARDOLL FLUID MANAGEMENT

A Collective Member of IP THE INSTITUTE OF PETROLEUM

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 6 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 compatability with its predecessor has been retained.

HUMY4000 SERIES HOSE UNIT - FAMILY TREE

NOZZLE STRUCTURE

HUMY4 [ ] [ ] [ ]

BASIC NUMBER

OPTIONS/ANCILLARIES

[ ][ ][ ][ ][ ][ ][ ][ ]

Add letter(s), in alphabetical order, only if option/ancillary is required

SURGE CONTROLLER

0	-	Not fitted
2	-	Twin 55 psi
3	-	30 psi
4	-	45 psi
5	-	50 psi
6	-	55 psi

ADAPTOR PROFILE

1	-	A-H Std
2	-	A-H 45° Elbow
3	-	A-H 90° Elbow
4	-	FR Profile
5	-	Thiem Profile
6	-	Carter Profile
7	-	Carter Profile 45° Elbow

B	-	Bonding cable
D or E	-	Standard dust cap External dust cap
G	-	Jet test adaptor and vent port adaptor
K	-	Vacuum Relief Valve
M or N	-	Selectivity 1, 2 or 3 (factory set to position 1) Selectivity 4 or 5 (factory set to position 4)
P	-	Protection ring (Stick or Stirup handle version only)
R or T	-	Ring handle Stirrup handle (in place of standard stick handle)
X	-	60 mesh strainer (in place of standard 100 mesh)
Z	-	Extreme cold weather seals -40°C

HOSE CONNECTOR			SIZES
OMIT THESE COLUMNS WHEN ADAPTORS 4, 5, 6, SUPPLIED			
S	-	Swivel (sizes 2, 3, 7, 8 only)	1 - 2 in. BSP 2 - 2.5 in. BSP 3 - 3 in. BSP 6 - 2 in. NPT 7 - 2.5 in. NPT 8 - 3 in. NPT
A	-	Lightweight Quick Disconnect (sizes 2, 3, 7, 8 only) std.	
Q	-	Quick Disconnect (sizes 2, 3, 7, 8 only)	
V	-	Quick Disconnect Isolating Valve (Push-button) (sizes 1, 2, 6, 7 only)	
L	-	Quick Disconnect Isolating Valve (Locking Screw) (sizes 1, 2, 6, 7 only)	

Example:- HUMY451A2DKP (Standard Nozzle with 50 psi Surge Controller, Standard Adaptor profile, 2.5 in. BSP Quick Disconnect with Strainer, Dust cap, Vacuum Relief Valve and Protection Ring