

HYDRAQUIP DataCool® HOSE ASSEMBLIES

DataCool hose assemblies have been designed to meet the requirements that are requested for hose assemblies fitted into cooling systems within data centres, specifically on rear cooling doors. The technical properties of the hose allow for significantly more movement than traditional hoses including torsion twisting in addition to normal linear flexing.

MATERIALS OF CONSTRUCTION (generally to SAE J20R2 or R5 HT CLASS A)

LINERS: SILICONE - SAE J20.

REINFORCEMENT: 1 PLY POLYESTER MESH FABRIC.

GALVANISED WIRE - BS3516 (for bore sizes 20mm and above only)

OUTER LAYER: SILICONE – SAE J20 (BLACK, BLUE, RED)

TECHNICAL

PERFORMANCE

BORE	BEND RADIUS	WP (BAR)	BP (BAR)	SAFETY FACTOR
6mm 1/4"	30	10	30	3:1
10mm 3/8"	44	10	30	3:1
13mm 1/2"	60	10	30	3:1
20mm 3/4"	100	10	30	3:1
25mm 1"	140	10	30	3:1
32mm 1 1/4"	190	6	20	3:1

PRESSURE	VACUUM
yes	no
yes	no
yes	no
yes	yes
yes	yes
yes	yes

TEMPERATURE RANGE

-55°C +170°C

ASSEMBLY TEST PRESSURE

Hydraulically tested to at least 1.5 x working pressure (wp) or as specified

HOSE ASSEMBLY INFORMATION

END CONNECTIONS

Nickel plated brass (CW617N), Plain brass (CW617N), Steel or stainless steel (304/316). Secured by crimped stainless steel (304) ferrules

MANUFACTURED LENGTHS

1 mtr (minimum) up to 5.5 mtr (maximum) subject to bore size

LENGTH UNDER PRESSURE (Elongation)

Change in mm per 1mtr (conducted under test lab conditions)
6mm bore – 0mm @ 0 bar, -16mm @ 5 bar, -32mm @ 10 bar
25mm bore - 0mm @ 0 bar, +15mm @ 5 bar, +17mm @ 10 bar

TESTING

Hose assemblies are 100% visually inspected, pressure tested and marked with unique traceable information as per customer specification.

FIRE RETARDANT PROPERTIES

In the unfortunate event of a fire normal silicone rubber will burn but does not give off toxic gases (including halogens) and has an ignition temperature of around 450°C. The fumes given off are also much less dense and tend to be white (silica) rather than the black fumes given off by other rubbers. A fire retardant version to CEN/TS 45545-2-2009 is available on request. General performance is as quoted above.

Disclaimer:

The information offered within this document is intended as a guide only and may be subject to change without notification. Specific applications should be discussed with HYDRAQUIP to ascertain suitability of the product.

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