

MSCM's coupling design is based upon a low force principal which results in a much reduced make up and separation force when compared to alternative couplings



Diver Mateable - A range of dual resilient seal hydraulic couplings suitable for make and break under full system pressure. These couplings can be supplied uniquely keyed and colour coded to prevent cross connection between HP, LP and chemical lines.

Quick Release Hydraulic - For use topside or workover and xmas tree equipment. Dual resilient seal couplings.

Stabplate Low Force Hydraulic - Male and female self-sealing couplings allowing make and break under full system pressure. The design of the coupling dictated a low separation force. This allows the dense population of stabplates for hydraulic distribution systems enabling a greater number of lines in a smaller area.

DESIGN FEATURES

- Higher CV value than comparable units available on the market
- Working pressure up to 15,000 psi (see table)
- Make and break under full system pressure
- Direct metal sealing between the internal body and poppet
- Male fixed couplings contain no seals
- Dual resilient seals in retrievable couplings
- Greater density of coupling population at high pressures, greater flow rates and reduced separation forces
- Chemical resistant seal options
- Manufactured in house achieving shorter delivery commitments & quality control

MSCM HYDRAULIC COUPLINGS		
1/4"	1138 BAR DWP	CV 1.0
3/8"	1138 BAR DWP	CV 1.9
3/4"	759 BAR DWP	CV 5.5

MATERIALS	
Body	Nitronic 50 HS
Adaptors	Nitronic 50 HS / UNS S32750
Tubing	ST STL 316L UNS S32750 INCONEL 625 6MO

DIVER MATEABLE HYDRAULIC COUPLINGS

These couplings are supplied as both universal and uniquely keyed with a visual coloured band in order to prevent cross connection between differing function lines within the distribution system e.g. LP, HP, Return, MeOH Chemical.

The male bulkhead mounted coupling which is mounted to the host subsea structure is fitted with a freely rotating location ring, with unique machined slots.

The angular positions of the slots correspond with a band which is clearly visible at the front of the coupling.

The female hydraulic coupling which is normally attached to the subsea distribution hose jumper has two opposing location pins which slide into the slots, the position of the pins are determined by the colour band.

- Clear visible colour code to view matching coupling functions
- Location slots & pins prevent connection unless they are of the same keying angle



DIVER MATEABLE HYDRAULIC KEY CODE	
Part Number	Key
ASXXX01	36° YELLOW
ASXXX02	54° DARK BLUE
ASXXX03	72° ORANGE
ASXXX04	90° RED
ASXXX05	108° BLACK
ASXXX06	126° BROWN
ASXXX07	144° WHITE
ASXXX08	162° VIOLET
ASXXX09	180° GREEN
ASXXX10	UNIVERSAL

