



Subsea Technologies

UO-SERIES MALE HYDRAULIC COUPLING DATA SHEET¹

Body Material

Nitronic 50 HS

Component Materials	
Poppet Assembly	K500/316 SS
Spring	Elgiloy/Inconel X-750
Spring Seat	316 SS
Spring Seat Retainer	316 SS/Elgiloy
Thrust Washer	Nitronic 60/50 HS
Washer Retaining Clip	Inconel X-750
Retaining Nut	Nit 60/Nit 50 HS/316 SS

Seal Material		
Poppet Seal	Delrin	(-DL)

Options		
Poppet Seal	PEEK	(-PK)
Poppet	Bleeder	(-B)
	No Poppet	(-NP)

Performance					
Part Series	Pressure Rating		Flow Coefficient (Cv)		
	Delrin Poppet Seal	PEEK Poppet Seal	Standard (200 psi)	High Flow ⁴	No Poppet
UO-4-A (1/4")	10,000 psi	17,500 psi	.53 ³	1.2	2.6
UO-8-A (1/2")	10,000 psi	15,000 psi	1.9 ²	3.2	6.7
UO-16-A (1")	10,000 psi	15,000 psi	5.5	9.2	16.4

1. Coupling Drawings or Part-Specific Data Sheets take precedence.
2. Cv = 1.2 when equipped with 800 psi cracking-pressure poppet spring.
3. Cv = 0.46 when equipped with debris resistant probe.
4. 200 psi cracking-pressure only. Increased length compared to standard-C, coupling: UO-4: 1.33" UO-8: 0.63" UO-16: 0.78"



Subsea Technologies

UO-SERIES FEMALE HYDRAULIC COUPLING DATA SHEET¹

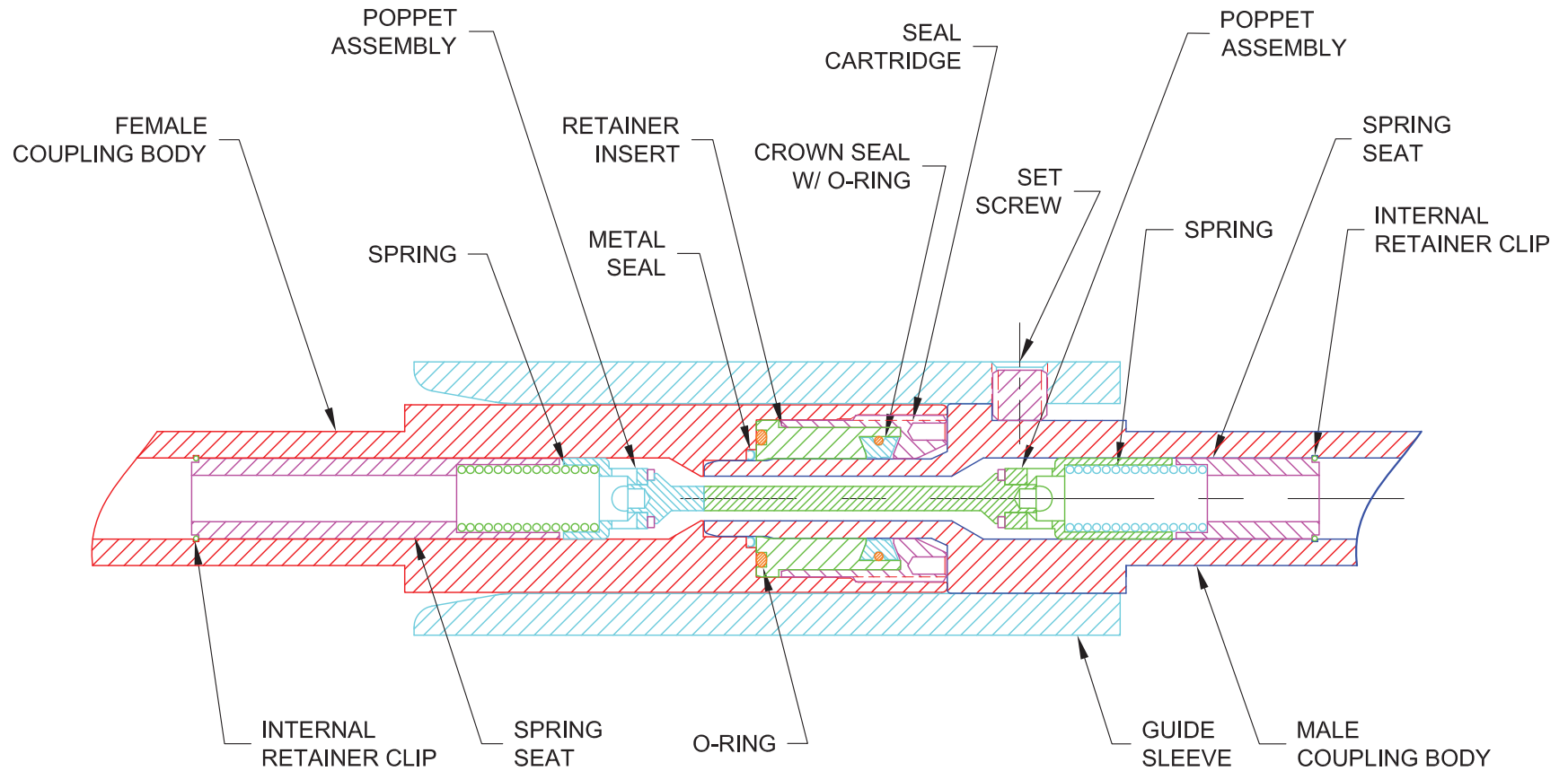
Body Material
Nitronic 50 HS

Component Materials		Seal Materials	
Seal Retainer Cart.	Nitronic 60 HS/ ToughMet 3 AT 110	Crown Seal	Fluorotrel 1507
Seal Retainer Insert	Nitronic 60 HS/ ToughMet 3 AT 110	O-rings	Nitrile 90D (-N552)
Poppet Assembly	K500/316 SS	Metal Seal	Inconel 718-Gold Plated
Spring	Elgiloy/Inconel X-750	Poppet Seal	Delrin
Spring Seat	316 SS		
Spring Seat Retainer	316 SS/Elgiloy		
Thrust Washer	Nitronic 60/Nit 50 HS		
Washer Retaining Clip	Inconel X-750		
Retaining Nut	Nit 60/Nit 50 HS/316 SS		

Options		
Poppet Seal	PEEK	(-PK)
Crown Seal	PEEK	(-PK)
	Dual PEEK	(-PK2)
	Glass Filled Teflon w/Nickel	(-GTFEN)
O-rings	Viton	(-V)
	Chemraz	(-C510)
	HNBR	(-2269)
Poppet	Bleeder	(-B)
	No Poppet	(-NP)

Performance							
Part Series	Pressure Rating		Max Working Depth		Flow Coefficient (Cv)		
	Delrin Poppet Seal	PEEK Poppet Seal	Crown Seal Materials		Standard (200 psi)	High Flow ⁴	No Poppet
UO-4-B (1/4")	10,000 psi	17,500 psi	Fluorotrel	9100ft (2770 m)	.53 ³	1.2	2.6
			PEEK	18,300ft (5580 m)			
UO-8-B (1/2")	10,000 psi	15,000 psi	Fluorotrel	7900ft (2410 m)	1.9 ²	3.2	6.7
			GTFEN	6800ft (2070 m)			
			PEEK	18,300ft (5580 m)			
UO-16-B (1")	10,000 psi	15,000 psi	Fluorotrel	7900ft (2410 m)	5.5	9.2	16.4
			GTFEN	7900ft (2410 m)			
			PEEK	18,300ft (5580 m)			

- Notes:
1. Coupling Drawings or Part-Specific Data Sheets take precedence.
 2. Cv = 1.2 when equipped with 800 psi cracking-pressure poppet spring
 3. Cv = 0.46 when equipped with debris resistant probe
 4. 200 psi cracking-pressure only. Increased length compared to standard-Cv coupling: UO-4: 1.33" UO-8: 0.63" UO-16: 0.78"



NOTE:

1. DRAWING SHOWS GENERIC REPRESENTATION OF COUPLING ASSEMBLY

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DIMENSIONS ARE IN INCHES			
TOLERANCES ARE:			
1 PLACE ± .1		DRAWN BY: JSK DATE: 29 JAN 13	
2 PLACE ± .01		APPROVED BY: DATE:	
3 PLACE ± .003		MATERIAL:	
ANGULAR ± 0° 30'		RFO / ECR NUMBER:	
BREAK ALL CORNERS .005		DRAWING NUMBER: UO ASSEMBLY	
TOOL RADIUS .015		REV: A	
DEFAULT SURFACE FINISH 63 /			
CONCENTRICITY .003			
DO NOT SCALE DRAWING			
THIRD ANGLE PROJECTION			