

RO-SERIES FEMALE HYDRAULIC COUPLING DATA SHEET¹

Body Material

Nitronic 50 HS

Component Materials		Seal Materials	
Seal Retainer	Nitronic 60 HS/ ToughMet 3 AT 110	Crown Seal	Fluorotrel 1507
Seal Retainer Nut	Nitronic 60 HS/ ToughMet 3 AT 110	O-rings	Nitrile 90D
Poppet Assembly	K500/316 SS	Metal Seal	Inconel X-750-Gold Plated
Spring	Elgiloy/Inconel X-750	Poppet Seal	Delrin
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		
T-Handle	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		Poppet (200 psi)	No Poppet
RO-4-B (1/4")	10,000 psi	17,500 psi	Dual PEEK	22,800ft (6950 m)	0.53	2.6
RO-8-B (1/2")	10,000 psi	15,000 psi	Dual PEEK	22,800ft (6950 m)	1.9 ²	6.7
RO-16-B (1")	10,000 psi	15,000 psi	Dual PEEK	22,800ft (6950 m)	5.5	16.4

- Notes: 1. Coupling Drawings or Part-Specific Data Sheets take precedence.
 2. Cv = 1.2 when equipped with 800 psi cracking-pressure poppet spring.

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