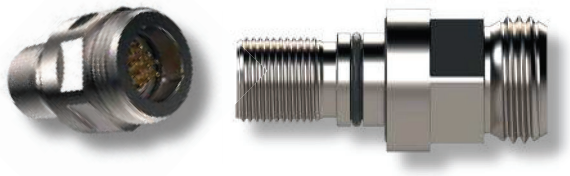
UNDER WATER RP5 SERIES - DRY MATE

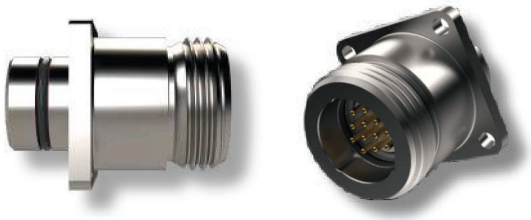
Under Water connectors **available in all common shell types as well as custom solutions**.

BCR - Bulkhead Connector, Receptacle

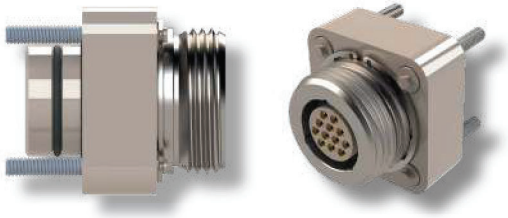


BCR - Kahuna - To eliminate cathodic delamination

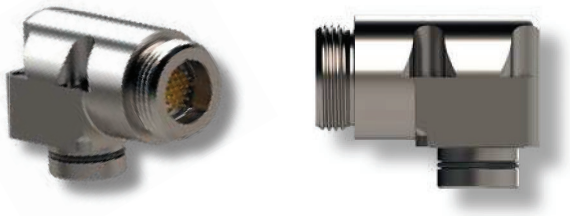
FCR - Flange Connector, Receptacle



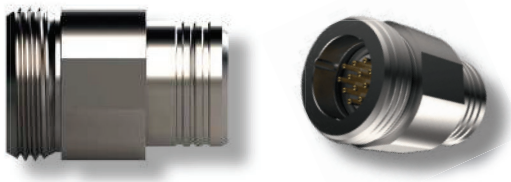
FCR - Kahuna - To eliminate cathodic delamination



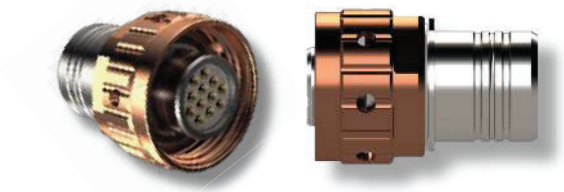
FCR90 - Flange Connector, Receptacle Low Profile, 90 degrees



CCR - Cable Connector, Receptacle

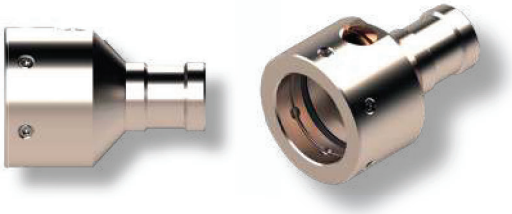


CCP - Cable Connector, Plug



CCP - Kahuna - To eliminate cathodic delamination

PBOF - Pressure balanced oil filled, use with CCP and CCR.



PBOF90 - Pressure balanced oil filled, use with CCP and CCR

CAPS - SPLASH AND PRESSURE PROOF

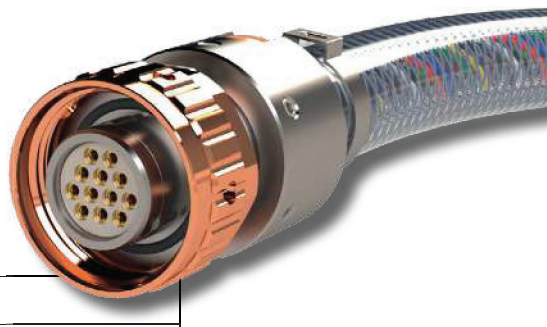
Plug Protector Splash Proof

Receptacle Protector Splash Proof

Plug Protector High Pressure

Receptacle Protector High Pressure

UNDER WATER RP5 SERIES - DRY MATE



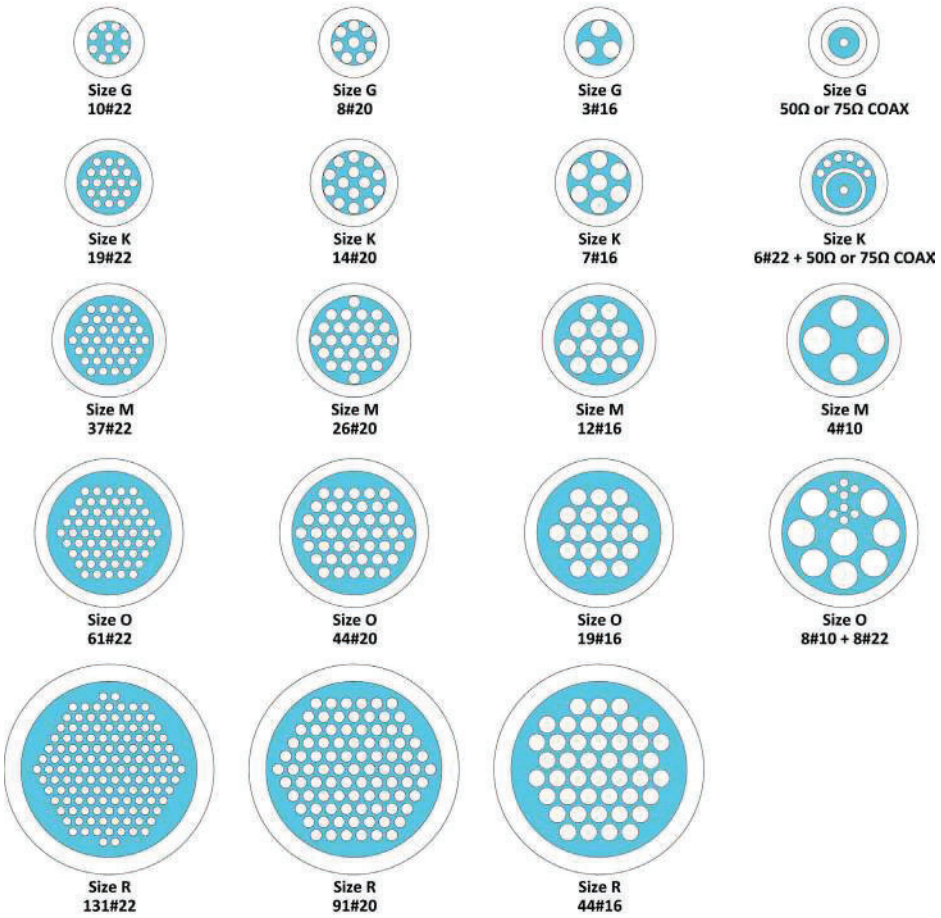
RP5 MATERIALS	
Shells	STD: 316 Stainless Steel - Passivated
	OPT: Titanium (other materials available upon request)
CCP Nut	STD: C630 Bronze
	Alternate Materials: Inquire
Insert Body	PEEK
Support Disk	Copper Alloy
Electrical Contacts	Gold Plated Copper Alloy
Retaining Rings	316 Stainless Steel Alternate Materials: Inquire
PBOF Locking Screws & Ring	
CCP Nut Washers	Acetal
O-ring Seals	NBR 90A Durometer

RP5 PERFORMANCE SPECIFICATIONS	
Pressure	15,000 psi Open Faced, Closed Face and PBOF
Temperature	STD: -30°F to 350°F*
Voltage	STD: 600 VDC *
Amperage	#22: 7 Amps
	#20: 11 Amps
	#16: 22 Amps
	#10: 42 Amps
Insulation Resistance	5 GΩ @ 1000 VDC @ ambient

* Higher temperature and higher voltage available upon request, above 180°F alternate FKM o-rings, CCP Nut Washers + Spacer must be used.

STANDARD INSERT CONFIGURATIONS

Standard insert configurations are **rapidly available and at low cost**. Custom configurations available. View shown is front of male.



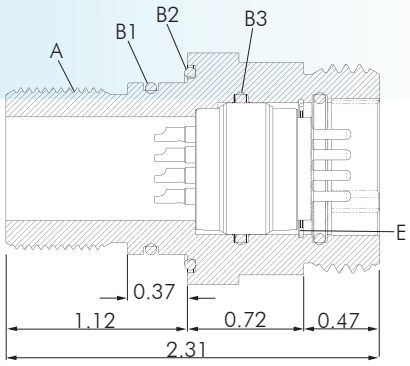
Rampart UWC - How to Order RP5BCR-K6#22-MSAX									
Sample Part number		RP5	BCR	-K	6#22	-M	S	A	X
Series	RP5 (Metal Shell)								
Connector Style	FCR, FCR90, BCR, CCP, CCR								
Shell Size	G, K, M, O, R								
Contact Arrangement	See contact arrangement standard options in catalog.								
Contact Style	M = Male (Pins), F = Female (Sockets)								
Shell Material	S = 316 Stainless Steel, T = Titanium								
Key Position	A = Standard, B, C								
Standard:	NO OPTION								

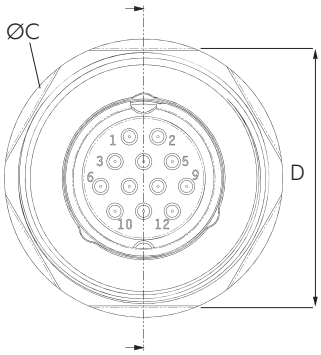
Items quoted separately: BCR Nut and Washer; Cable and Overmold (CCP & CCR); Receptacle flying leads.

COMPONENTS / DIMENSIONS (INCHES)

UNDER WATER RP5 SERIES - BCR

Bulkhead Connector, Receptacle

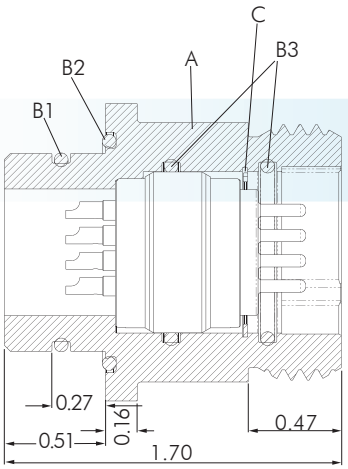


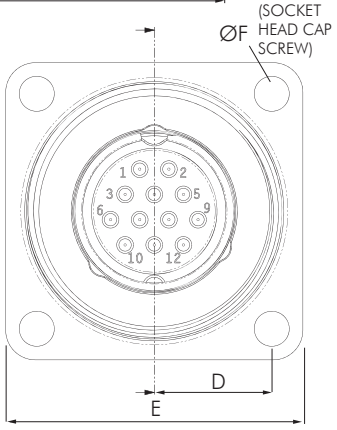


BCR COMPONENTS / DIMENSIONS (INCHES)							
SIZE	**A** BULKHEAD THREAD (CL 2)	**B1** EXTERNAL O-RING (RADIAL SEAL)	**B2** EXTERNAL O-RING (FACE SEAL)	**2X B3** INTERNAL O-RINGS	**øC**	**D** (HEX FLATS)	**E** RETAINING RING
G	5/8 - 24 UNEF	2-015	2-019	2-014	1.06	0.938	VH-50
K	3/4 - 20 UNEF	2-017	2-020	2-016	1.18	1.063	VH-62
M	1 - 20 UNEF	2-021	2-024	2-019	1.43	1.313	VH-81
O	1 1/8 -16 UN	2-023	2-027	2-023	1.68	1.563	VH-106
R	1 1/2 -16 UN	2-029	2-031	2-029	2.06	1.938	VH-150

UNDER WATER RP5 SERIES - FCR

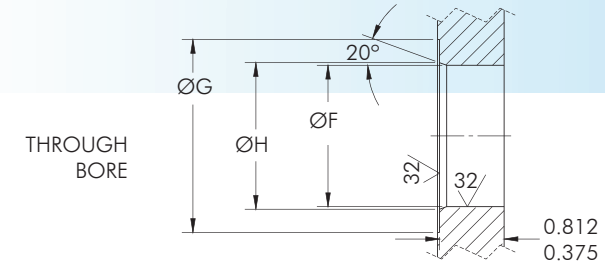
Flange Connector, Receptacle

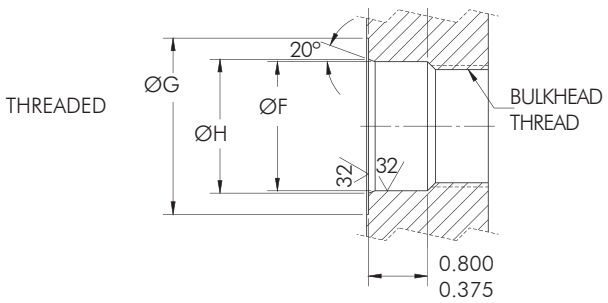




FCR COMPONENTS / DIMENSIONS (INCHES)								
SIZE	**øA**	**B1** EXTERNAL O-RING (RADIAL SEAL)	**B2** EXTERNAL O-RING (FACE SEAL)	**2X B3** INTERNAL O-RINGS	**C** RETAINING RING	**D**	**E** SQUARE	**4X øF** FITS SOCKET HEAD CAP SCREW
G	0.933	2-015	2-019	2-014	VH-50	0.453	1.12	4-40 UNC
K	1.058	2-016	2-020	2-016	VH-62	0.510	1.25	6-32 UNC
M	1.308	2-020	2-023	2-019	VH-81	0.593	1.50	8-32 UNC
O	1.558	2-022	2-026	2-023	VH-106	0.723	1.75	8-32 UNC
R	1.933	2-028	2-030	2-029	VH-150	0.884	2.12	10-24 UNC

MOUNTING DIMENSIONS (INCHES)



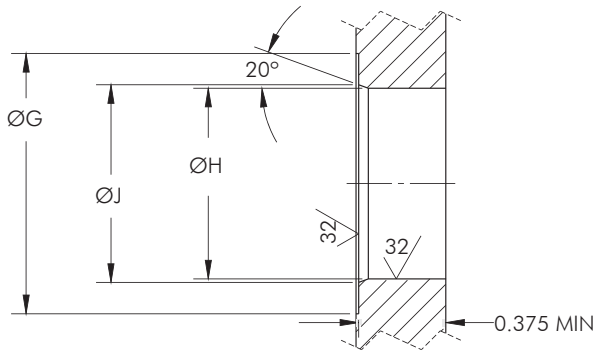


BCR MOUNTING DIMENSIONS
Nut/washer available for through bore mount.

SIZE	øF +002 - 000	øG MIN SPOTFACE	øH +/- 0.01	MOUNTING TORQUE (UNLUBRICATED) FT-LB +/- 10%
G	0.687	1.08	0.737	30
K	0.812	1.20	0.862	35
M	1.062	1.45	1.112	35
O	1.187	1.70	1.237	50
R	1.625	2.08	1.675	60

FCR MOUNTING DIMENSIONS

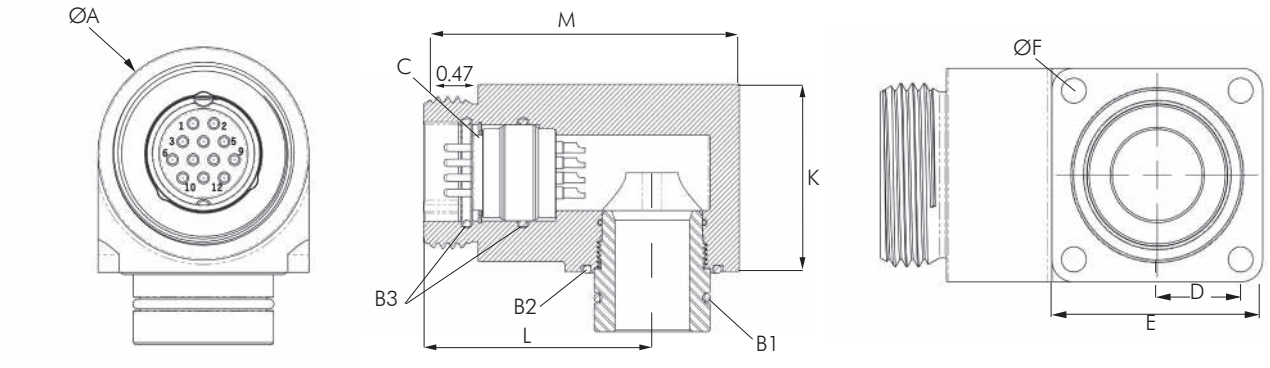
SIZE	øG MIN SPOTFACE		øH +002 - 000	øJ +/- 0.01
	DEPTH **<0.001**	DEPTH **>0.001**		
G	1.00	1.56	0.687	0.737
K	1.12	1.75	0.750	0.800
M	1.31	2.12	1.000	1.050
O	1.50	2.44	1.125	1.175
R	1.87	3.00	1.500	1.550



COMPONENTS / DIMENSIONS (INCHES)

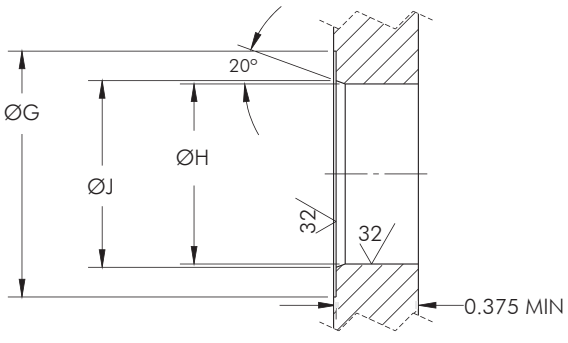
UNDER WATER RP5 SERIES - FCR90

Flange Connector, Receptacle - Right Angle, Low Profile

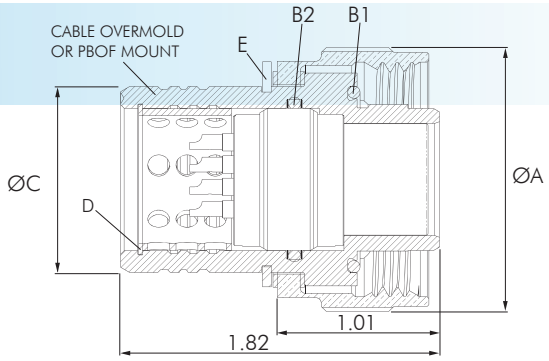


FCR COMPONENTS / DIMENSIONS (INCHES)											
SIZE	**øA**	**B1** EXTERNAL O-RING (RADIAL SEAL)	**B2** EXTERNAL O-RING (FACE SEAL)	**2X B3** INTERNAL O-RINGS	**C** RETAINING RING	**D**	**E** SQUARE	**4X øF** FITS SOCKET HEAD CAP SCREW	**K**	**L**	**M**
G	1.120	2-015	2-019	2-014	VH-50	0.453	1.12	4-40 UNC	1.395	1.845	2.405
K	1.250	2-016	2-020	2-016	VH-62	0.510	1.25	6-32 UNC	1.460	1.845	2.47
M	1.500	2-020	2-023	2-019	VH-81	0.593	1.50	8-32 UNC	1.585	1.969	2.719
O	1.750	2-022	2-026	2-023	VH-106	0.723	1.75	8-32 UNC	1.710	2.032	2.907
R	2.120	2-028	2-030	2-029	VH-150	0.884	2.12	10-24 UNC	1.895	2.219	3.339

MOUNTING DIMENSIONS				
SIZE	**øG** MIN SPOTFACE		**øH** +002 - 000	**øJ** +/- 0.01
	DEPTH **<0.001**	DEPTH **>0.001**		
G	1.00	1.56	0.687	0.737
K	1.12	1.75	0.750	0.800
M	1.31	2.12	1.000	1.050
O	1.50	2.44	1.125	1.175
R	1.87	3.00	1.500	1.550

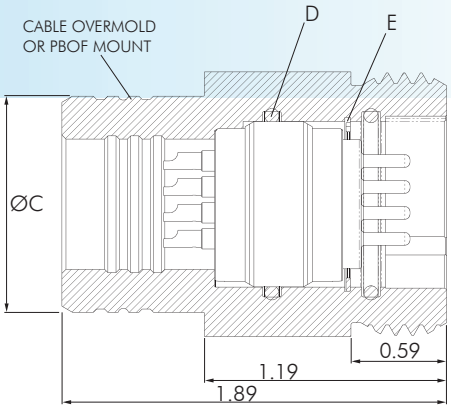


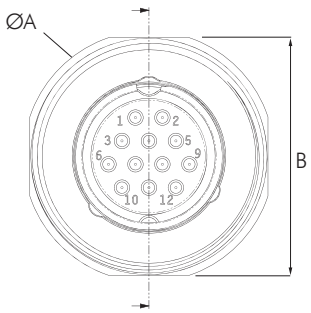
UNDER WATER RP5 SERIES - CCP
Cable Connector, Plug



CCP COMPONENTS / DIMENSIONS (INCHES)						
SIZE	**øA**	**B1** INTERNAL O-RING (FACE SEAL)	**B2** INTERNAL O-RING (RADIAL SEAL)	**øC**	**D** RETAINING RING	**E** RETAINING RING
G	1.15	2-016	2-014	0.750	VH-50	RSSE-075-CSOP
K	1.27	2-018	2-016	0.875	VH-62	RSSE-087-CSOP
M	1.51	2-021	2-019	1.062	VH-81	RSSE-106-CSOP
O	1.74	2-025	2-023	1.250	VH-106	RSSE-125-CSOP
R	2.14	2-030	2-029	1.750	VH-150	RSSE-175-CSOP

UNDER WATER RP5 SERIES - CCR
Cable Connector, Receptacle





CCR COMPONENTS / DIMENSIONS (INCHES)					
SIZE	**øA**	**B** (FLATS)	**øC**	**2X D** INTERNAL O-RING	**E** RETAINING RING
G	1.00	0.92	0.75	2-014	VH-50
K	1.12	1.05	0.875	2-016	VH-62
M	1.37	1.30	1.062	2-019	VH-81
O	1.62	1.55	1.250	2-023	VH-106
R	2.00	1.90	1.750	2-029	VH-150