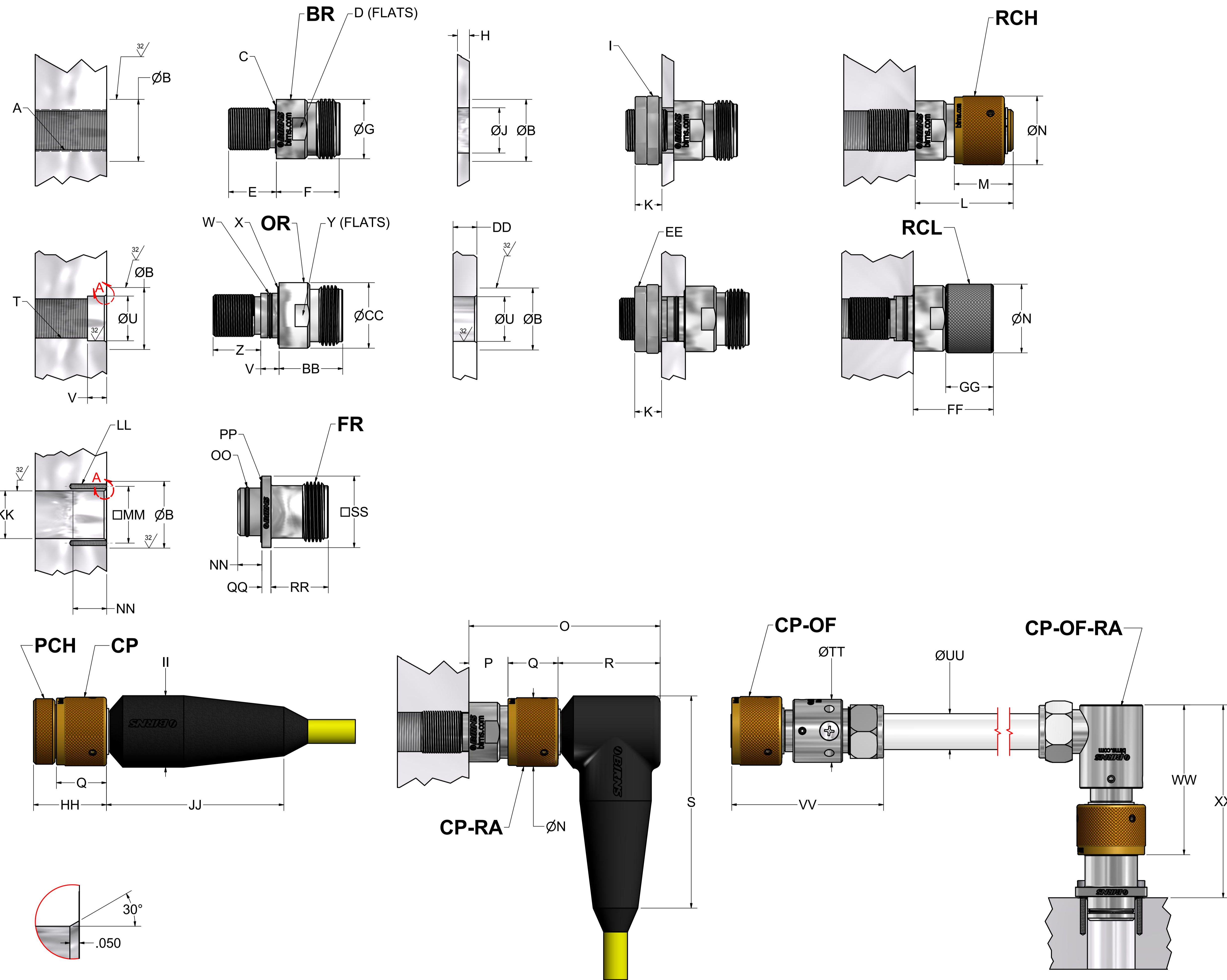


# Millennium 3R Dimensions



**DETAIL A**  
TYPICAL O-RING  
LEAD IN

Callout	Description	3R
A	BR Mounting Thread	1 1/2-16 UN-2B
B	O-Ring Spot Face	2.07
C	BR Face O-Ring	2-031
D	BR Wrench Flats	2
E	BR Thread Length	1.25
F	BR Body Height	1.57
G	BR Body Diameter	2.25
H	BR Vessel Thickness, Drilled	.69 max
I	BR Nut/Washer Assy P/N	24I-150
J	BR Drilled Hole Diameter	1.52
K	BR/OR Nut and Washer Height	0.56
L	BR/RCH Combined Height	2.29
M	RCH Height	1.24
N	Engaging Nut Diameter	2.25
O	BR/CP-RA Combined Height	3.69
P	CP to Face Distance, on BR	1.05
Q	Engaging Nut Height	1.05
R	RA Overmold Height	1.59
S	RA Overmold Length	4.49
T	OR Mounting Thread	1 1/2-16 UN-2B
U	OR Shaft Seal Diameter	1.625 +.002/-.000
V	OR Shaft Seal Depth	0.43
W	OR Shaft Seal O-Ring	2-029
X	OR Face Seal O-Ring	2-132
Y	OR Wrench Flats	1.92
Z	OR Thread Length	1.25
BB	OR Body Height	1.85
CC	OR Body Diameter	2.19
DD	OR Vessel Thickness, Drilled	1.06 max
EE	OR Nut/Washer Assy P/N	24I-150
FF	OR/RCL Combined Height	
GG	RCL Height	
HH	Engaging Nut/PCH Comb. Height	1.905
II	Straight Overmold Diameter	2.02
JJ	Straight Overmold Length	5.25
KK	FR Shaft Seal Diameter	1.500 +.002/-.000
LL	FR Mounting Screw Size	1/4
MM	FR Mounting Screw Pattern	1.768
NN	FR Shaft Seal Depth	0.5
OO	FR Shaft Seal O-Ring	2-028
PP	FR Face Seal O-Ring	2-031
QQ	FR Flange Thickness	0.25
RR	FR Body Height	1.22
SS	FR Flange Dimension	2.25
TT	CP-OF Body Diameter	2.13
UU	Oil-Filled Tubing Diameter	1
VV	CP-OF Overall Length	3.72
WW	CP-OF-RA Height	3.83
XX	FR/CP-OF-RA Clearance Height	4.48

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