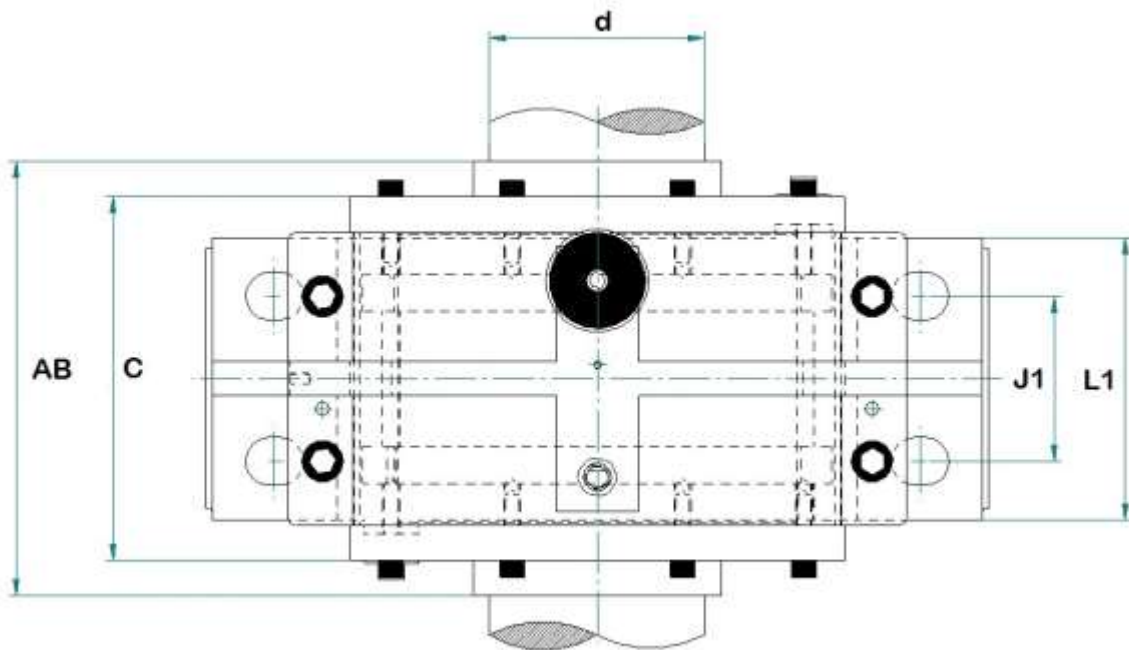
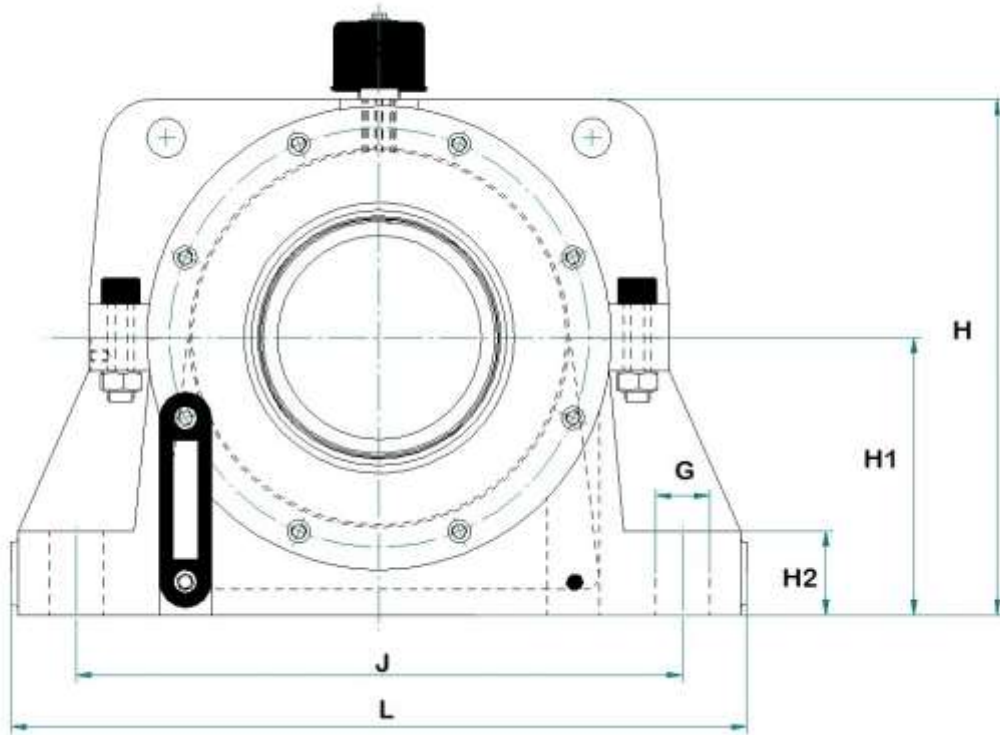


**WFO OIL BATH LUBRICATED PLUMMER
BLOCK TYPE BEARING HOUSINGS
FOR USE WITH SPHERICAL ROLLER BEARINGS
MOUNTED ON PARRALEL SHAFT OR TAPER ADAPTOR
SLEEVES.**



WFO Oil Bath Plummer Block Housings





DIMENSION TABLE SUITABLE FOR SERIES 222 BEARINGS DIRECT MOUNTED

Designation	Shaft Dia d mm	AB APPROX.	L1	G	H	H1	H2	J	J1	L	C	Bearing Designation
WFO 216	80	180	129	M20	230	125	35	260	60	330	165	22216
WFO 217	85	180	130	M20	253	155	35	300	60	350	154	22217
WFO 218	90	190	120	M20	245	135	45	290	70	360	170	22218
WFO 219	95	200	135	M20	255	140	40	290	80	360	184	22219
WFO 220	100	206	130	M24	270	145	50	320	75	400	186	22220
WFO 222	110	229	145	M24	290	160	50	347	75	420	203	22222
WFO 224	120	276	170	M24	315	170	55	347	90	420	240	22224
WFO 226	130	270	180	M24	335	180	60	377	100	450	240	22226
WFO 228	140	280	190	M30	355	190	65	415	100	500	250	22228
WFO 230	150	280	190	M30	375	220	65	450	115	540	250	22230
WFO 232	160	316	205	M30	405	215	65	470	120	560	280	22232
WFO 234	170	350	230	M30	440	235	70	515	130	610	310	22234
WFO 236	180	360	240	M30	455	245	75	545	150	650	320	22236
WFO 240	200	378	260	M36	510	275	85	600	160	730	328	22240
WFO 244	220	404	280	M36	565	305	95	670	180	820	365	22244
WFO 248	240	450	320	M36	600	330	90	700	180	820	390	22248

SUITABLE FOR SERIES 222 K BEARINGS WITH ADAPTOR SLEEVES

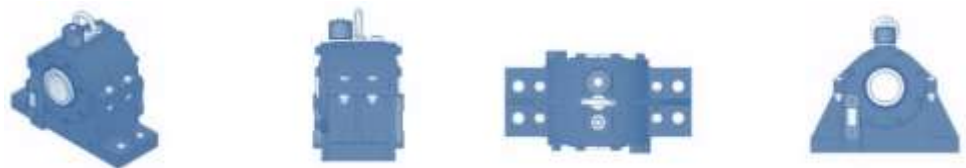
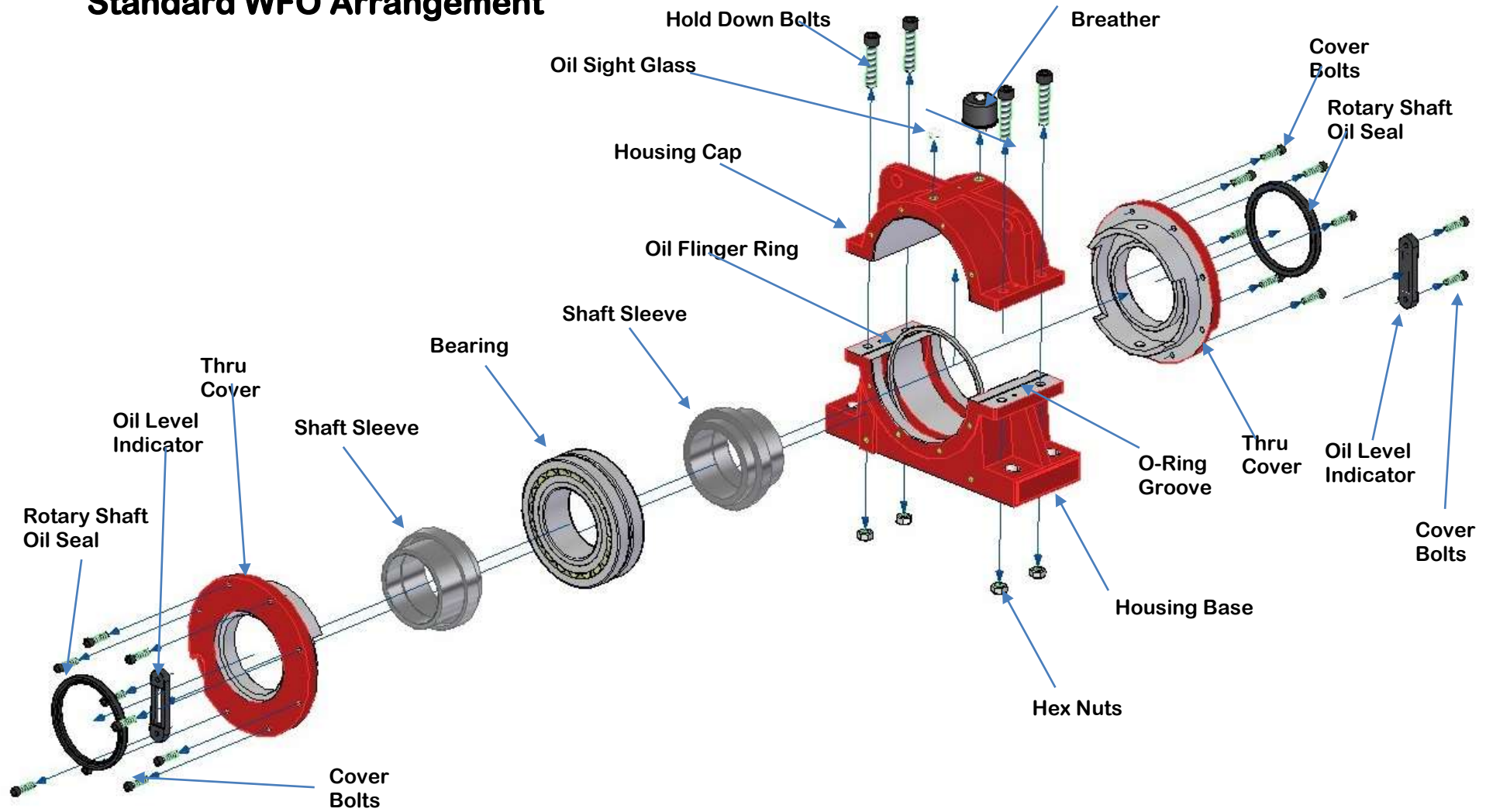
Designation	Shaft Dia d mm	AB APPROX.	L1	G	H	H1	H2	J	J1	L	C	Bearing Designation	Adaptor Sleeve Designation
WFO 516	70	180	129	M20	230	125	35	260	60	330	165	22216CK	H316
WFO 517	75	180	130	M20	253	155	35	300	60	350	156	22217CK	H317
WFO 518	80	190	120	M20	245	135	40	290	70	360	148	22218CK	H318
WFO 519	85	200	135	M20	255	140	40	290	80	360	184	22219CK	H319
WFO 520	90	206	130	M24	260	145	50	320	75	400	186	22220CK	H320
WFO 522	100	229	145	M24	292	160	50	347	75	420	200	22222CK	H322
WFO 524	110	253	170	M24	315	170	55	347	90	420	216	22224CK	H3124
WFO 526	115	270	180	M24	335	180	60	377	100	450	240	22226CK	H3126
WFO 528	125	280	184	M30	350	190	65	415	100	500	232	22228CK	H3128
WFO 530	135	280	190	M30	375	220	65	450	115	540	250	22230CK	H3130
WFO 532	140	316	205	M30	405	215	65	470	120	560	280	22232CK	H3132
WFO 534	150	350	230	M30	440	235	70	515	130	610	310	22234CK	H3134
WFO 536	160	360	240	M30	455	245	75	545	150	650	320	22236CK	H3136
WFO 538	170	356	235	M30	478	270	80	580	155	700	268	22238CK	H3138
WFO 540	180	378	260	M36	510	275	85	600	160	730	338	22240CK	H3140
WFO 544	200	404	280	M36	565	305	95	670	180	820	365	22244CK	H3144
WFO 548	220	450	240	M36	550	280	70	660	150	760	310	22248CK	H3148
WFO 552	240	450	320	M36	600	330	90	700	180	820	390	22252CK	H3152
WFO 560	280	480	350	M36	710	400	80	810	180	930	430	22260CK	H3160

SUITABLE FOR SERIES 230 K BEARINGS WITH ADAPTOR SLEEVES

Designation	Shaft Dia d mm	AB APPROX	L1	G	H	H1	H2	J	J1	L	C	Bearing Designation	Adaptor Sleeve Designation
WFO 424	110	218	160	M26	260	145	40	320	75	400	190	23024K	H3024
WFO 426	115	230	170	M26	285	160	40	320	85	420	200	23026K	H3026
WFO 428	125	245	180	M26	310	180	45	265	95	445	215	23028K	H3028
WFO 430	135	260	190	M26	340	200	45	390	105	470	225	23030K	H3030
WFO 432	140	275	200	M30	370	220	50	420	115	495	240	23032K	H3032
WFO 434	150	290	210	M30	400	240	50	445	125	520	255	23034K	H3034
WFO 436	160	305	206	M30	441	255	55	465	135	545	265	23036K	H3036
WFO 438	170	330	235	M30	455	270	60	480	140	570	280	23038K	H3038
WFO 440	180	360	250	M30	497	300	60	490	160	565	300	23040K	H3040
WFO 444	200	380	265	M36	540	320	70	560	168	670	320	23044K	H3044
WFO 448	220	400	260	M36	540	310	70	660	175	820	312	23048K	H3048
WFO 456	260	420	300	M42	680	360	90	730	180	920	380	23056K	H3056
WFO 464	300	440	315	M42	680	380	100	840	105	1000	400	23064K	H3064

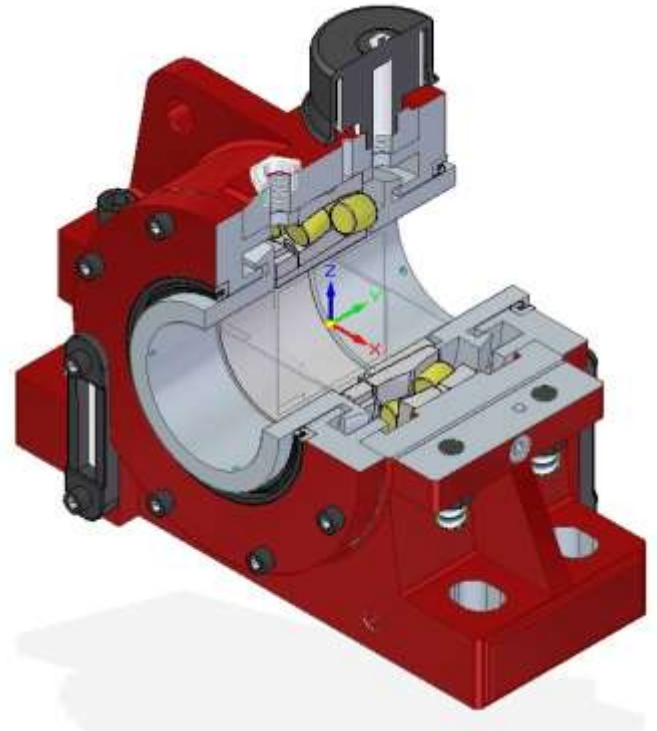
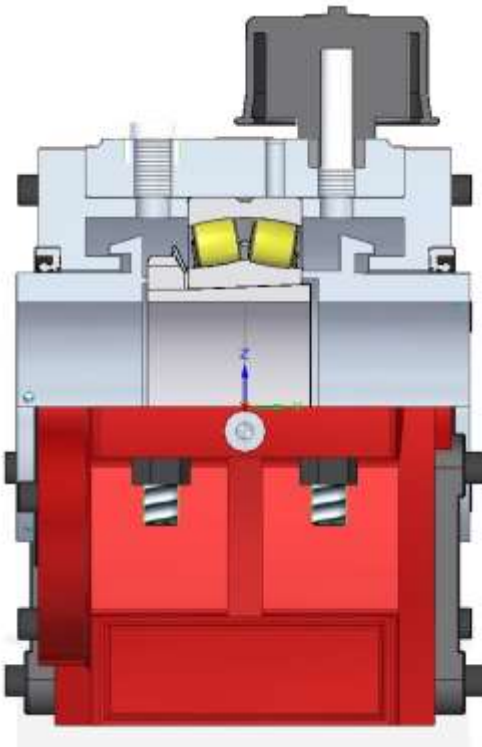
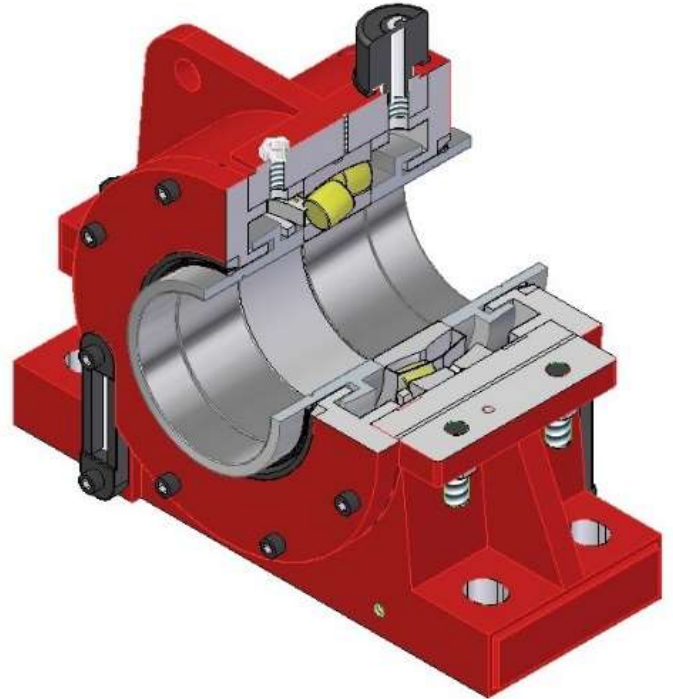
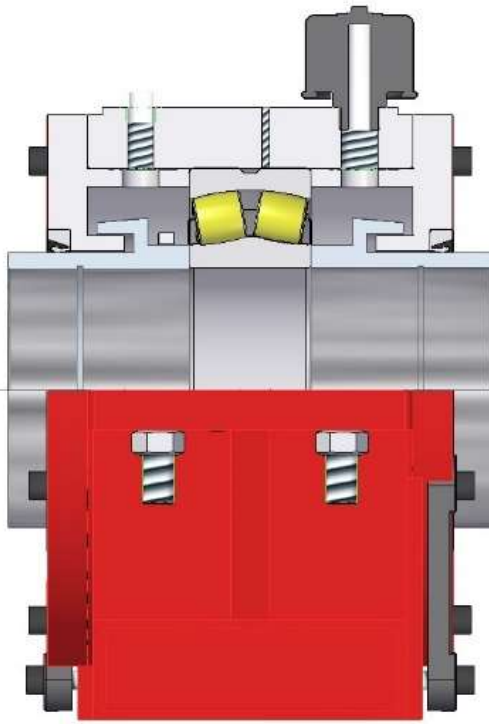


Standard WFO Arrangement

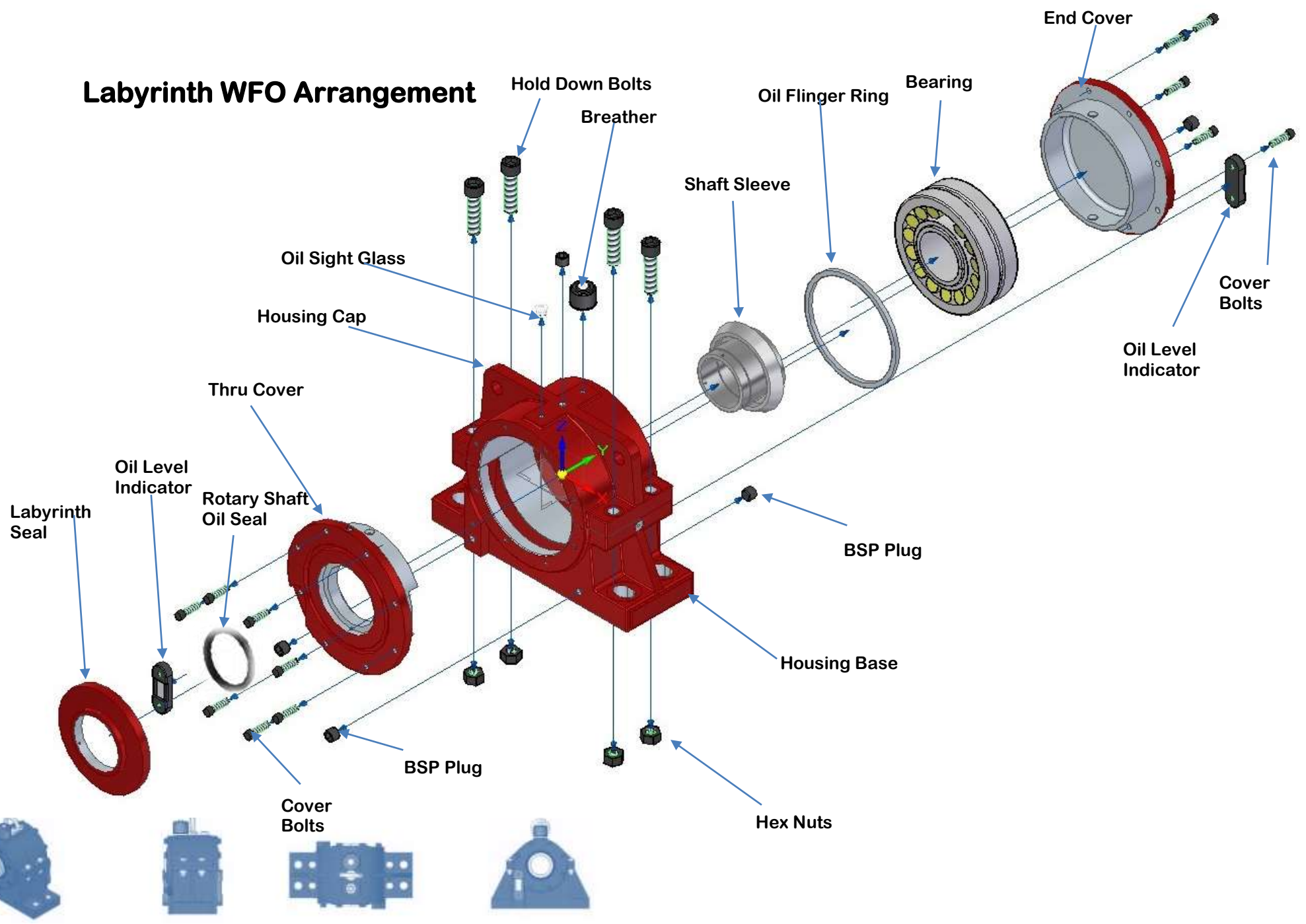


WFO Oil Bath Lubricated Arrangements

Standard WFO Arrangement

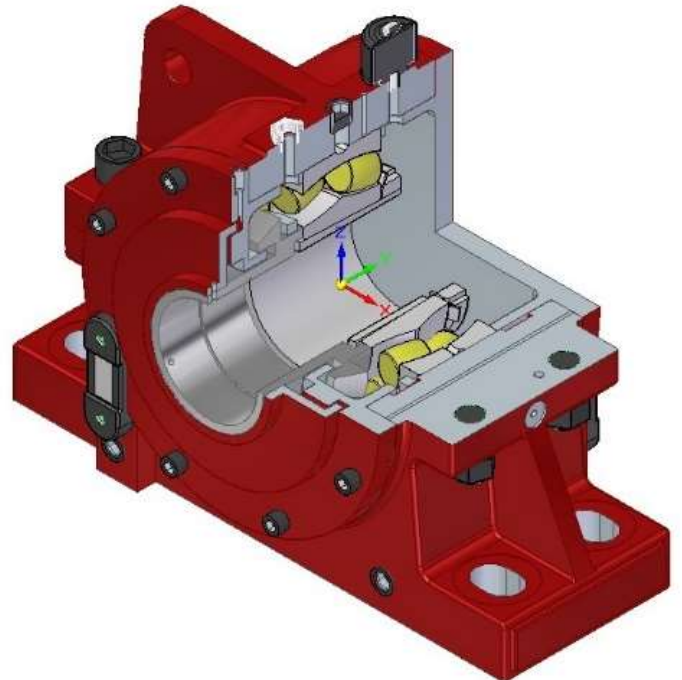
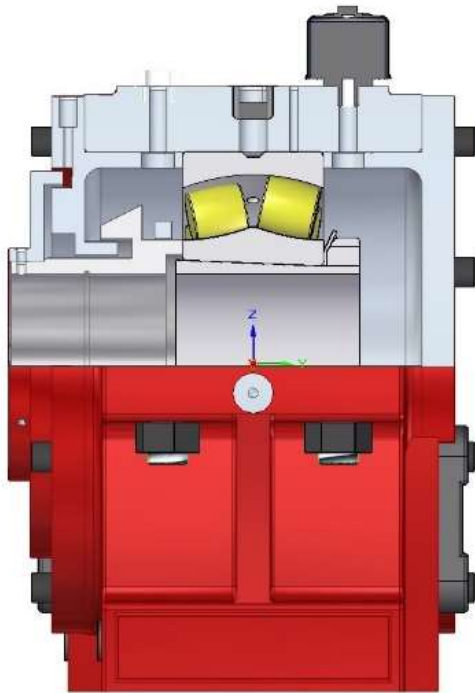
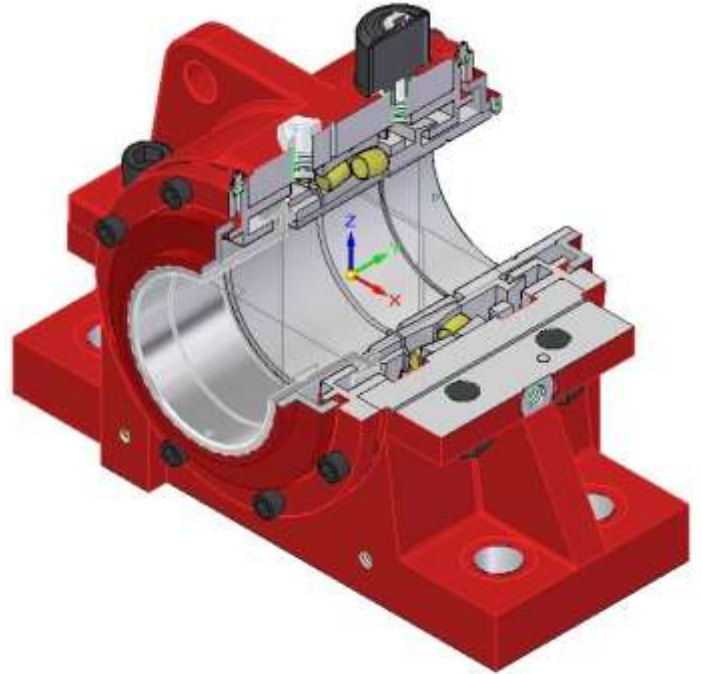
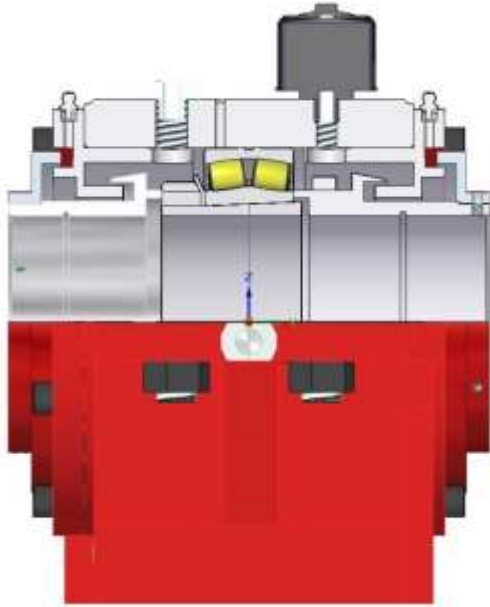


Labyrinth WFO Arrangement



WFO Oil Bath Lubricated Arrangement

Labyrinth WFO Arrangement



Principle of the WFO design

Spherical roller bearings have the advantage of being able to carry combinations of high axial and radial loads and of course, have self-aligning abilities. Their only limitation is the threshold of speed within which they will operate satisfactorily, firstly with grease lubrication and to a higher limit with oil bath lubrication. Beyond this limit higher speeds are only possible with either oil mist lubrication (at high cost) or oil splash lubrication as generated within the WFO housings. Spherical roller bearings operated under oil-splash can be run at speeds of up to 30% greater than that shown in bearing manufacturer's catalogues under the oil speed heading.

Mode of operation: The oil level in the housing is kept below the bearing outer track and oil is splashed into the rollers by means of an oil ring which runs on the adjacent collar. The relatively large diameter of the oil ring allows flexibility in the level of oil contained within the housing. The client is provided with an arrangement drawing which shows the maximum and minimum oil levels applicable to the housing. Upon start-up, the maximum oil level must be present in the housing. Occasional checking of the oil level, through the sight glass, is all the maintenance necessary.

The WFO housing is designed as a low pressure system. The breather on the housing ensures this. The rotary shaft seal is mounted into the cover with the spring facing outward due to the low pressure nature of the housing.

With the seal mounted in this manner external pressure forces the lip of the seal down onto the shaft sealing the assembly positively, not allowing dirt ingress from external forces. This also allows the unit to breathe should the element of the breather get blocked or contaminated.



Ordering of the WFO Oil Bath Lubricated Housing

The WFO Oil Bath Lubricated Plummer Block bearings housing is mainly use with Spherical Roller bearings. They are designed to suit 222 and 230 series bearings with or without an adapter sleeve. These housings are cast in S.G. Iron Grade 42. WRE manufacture an A and a B type configuration.

Example of the designations:

Standard WFO Arrangements WFO 518 KAL/F or KBL/F

WFO = Oil Bath Bearing Housing
518 = 80mm shaft dia = 22218EK.C3
K = Taper bearing on an Adapter sleeve.
A = End cover arrangement.
B = Thru Cover arrangement.
L = Non Located
F = Located

WFO 218 AL/F or BL/F

WFO = Oil Bath Bearing Housing
218 = 90mm shaft dia = 22218E.C3 (Without Adapter sleeve)
A = End cover arrangement.
B = Thru Cover arrangement.
L = Non Located
F = Located



Ordering of the WFO Oil Bath Lubricated Housing

Labyrinth Type WFO Arrangements WFO 518 KAL/F LAB or KBL/F LAB

WFO = Oil Bath Bearing Housing
518 = 80mm shaft dia = 22218EK.C3
K = Taper bearing on an Adapter sleeve.
A = End cover arrangement.
B = Thru Cover arrangement.
L = Non Located
F = Located
LAB = Labyrinth Seal

WFO 218 AL/F LAB or BL/F LAB

WFO = Oil Bath Bearing Housing
218 = 90mm shaft dia = 22218E.C3 (Without Adapter sleeve)
A = End cover arrangement.
B = Thru Cover arrangement.
L = Non Located
F = Located
LAB = Labyrinth Seal

Every WFO unit is supplied with the following components:

- 1 x Housing (Cap & Base)
- 1 x Thru or End cover. (Depending on the configuration)
- 1 or 2 Shaft Sleeves. (Depending on the configuration)
- 1 x Oil Flinger Ring.
- 1 or 2 Rotary Shaft Oil Seals
- 2 x Oil Level Indicators
- 1 x Oil Sight Glass
- 1 x Breather
- 1 or 2 Labyrinth seals



Some useful hints on application of flanged bearing housing assembly

Mounting

Measure the internal clearance in the bearing and reduce to the correct figure by driving up the bearing on the adaptor sleeve. The required final clearance figures are published in most bearing catalogues. WRE laminated clearance reduction charts are available on request.

Location

Ensure that when two housings are mounted on one shaft only one of the bearings is located in the housing by means of the longer spigot of the located cover and that the other is free to move in the housing when thermal expansion or contraction take place in the shaft, to avoid cross location.

Lubrication

The WFO Oil Bath Lubricated Bearing Housing is an Oil Lubricated housing. Use the correct amount of oil for the application. Over and under lubrication can cause problems with the bearing and ultimately result in bearing failure. Overfilling the housing will lead to oil leakage and high temperatures. For very high operating temperatures we recommend using a synthetic instead of a mineral oil.

Sealing

The Rotary shaft seals provided run on the shaft sleeves so that the shaft does not get damaged over time. Labyrinth seals can be provided, these protect the rotary shaft oil seals. Grease is pumped between the Labyrinth and Rotary shaft seals to create a sealing barrier against contamination.



722 / I-1200 FLANGED • BND SOLID TYPE • SPA / THDS / TH / THM TAKE UP • SN / SSN / SNH / SNU / FSN / SAF / SD / SDAF / SDJC / SDG PLUMMER BLOCKS • TRUNNION MILL / BALL MILL / ROD MILL / PINION / SHEAVE WHEEL / DIFFUSER HEAD SHAFT / SHREDDER / CANE KNIFE / SHAKER SCREEN / DRAGLINE / DAVIDSON HOUSINGS • WFO OIL BATH PLUMMER BLOCK • WRB DUAL FAN GREASE & OIL LUBRICATED / VWRB VERTICAL / MAJAX / DINGLER / CODELCO • TVN HANGER • MANIFOLD SUPPORT • PRE STRESS BOLTS / NUTS & STOOD • OIL INJECTION ADAPTER SLEEVES • TS LABYRINTH / TACONITE SEALS • END DISKS / LOCATING RINGS • HYDRAULIC NUTS / PUMPS & ACCESSORIES • FABRICATION OF HOUSINGS & COMPONENTS • GENERAL ENGINEERING.

For more information please contact us on:

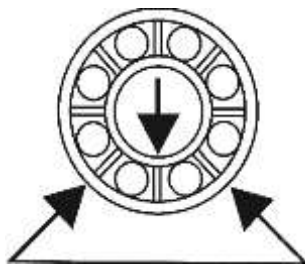
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