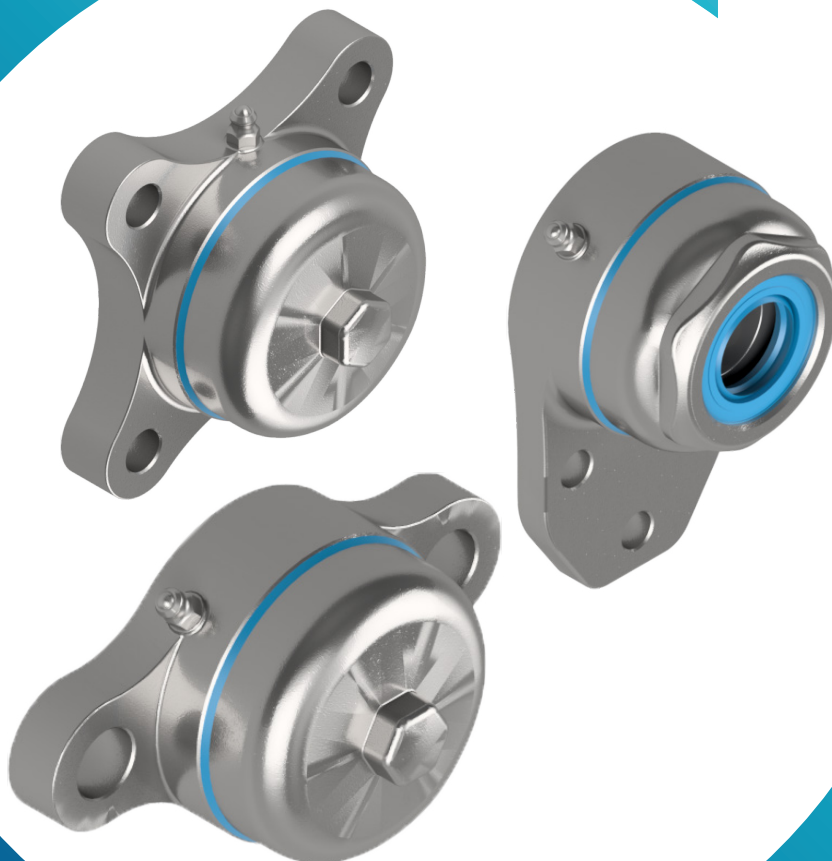


Stainless steel
Hygienic
Bearing System.

DHLASS



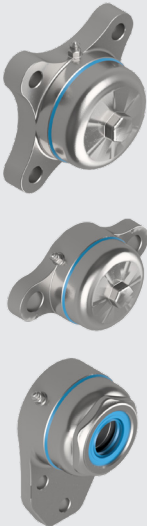


DERTEC Signature Line Ball bearing units

A complete range of stainless steel bearing units for the very challenging food and beverage industry. Strict cleaning regimes are necessary to eliminate contaminants and reduce the spread of bacteria. Regularly cleaning of the machinery means that the machines are frequently exposed to pressure washdowns with caustic, antibacterial cleaning agents. Dertec Signature line ball bearing units offer a range of bearing solutions for such demanding environments. Standard made in stainless steel 316, double sealed with O-rings and Hygienic seals. These bearing units are developed for demanding environments. Dertec Signature line ball bearing units are designed to withstand frequent washdowns. Moreover the new bearing units solve many of the problems connected to traditional maintenance.

Dertec Signature line Stainless steel ball bearing units have been developed for use in these demanding environments. The stainless steel hygienic surface design is developed to proactively eliminate contaminant traps and reduce the spread of bacteria. The blue optical and detectable hygienic seals and stainless steel housing are made to EHEDGE hygienic guidelines. The Dertec Signature line stainless steel bearing units are completely sealed units with open or closed endcover and backseal.

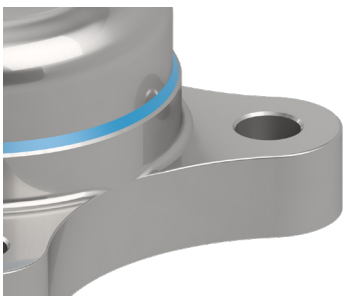
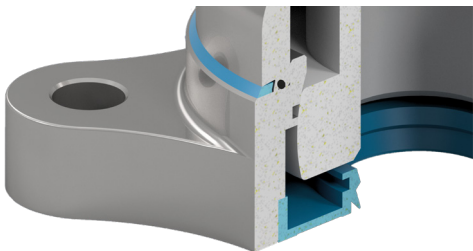
With the optional spacers the standard bearing housing can easily be turned int “standoff” bearings.



DERTEC Signature line stainless steel bearing units properties

The bearing housing is designed to avoid crevices or recesses where soiling and bacteria might accumulate or become trapped. The housing has no sharp corners all surfaces are angled to prevent pooling. The flat surfaces on the housings are intended to use for installation the housings with Dertec Signature line hygienic bolts and bonded seals. The smooth surface on the housing plays an important role to achieve easy cleanability and drainability.

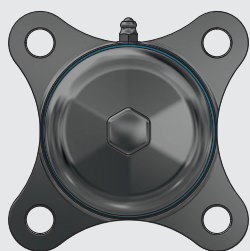
The endcover is provided with an O-ring and a hygienic seal offering maximum hygienic protection The back seal offers an additional sealing protection to protect the bearing unit from shaft side contamination. All units are lubricated with NSF-approved food-grade grease, the high-quality grease is registered by NSF as a category H1 grease.



Signature Line

DERTEC Signature line designs

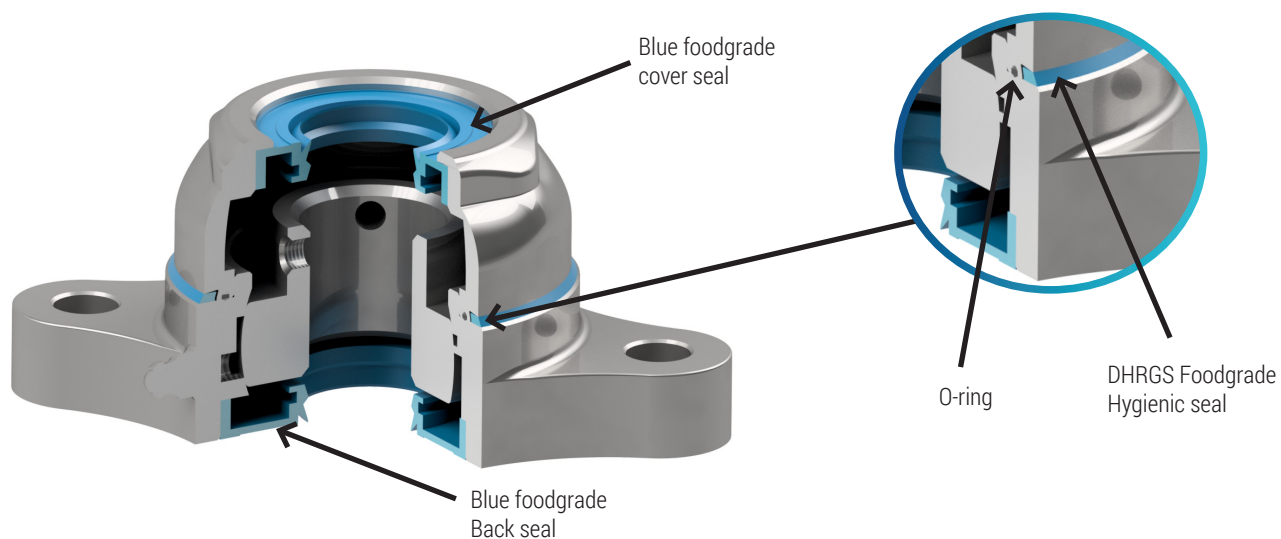
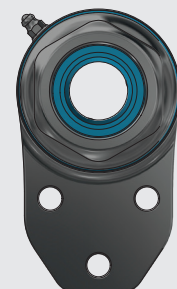
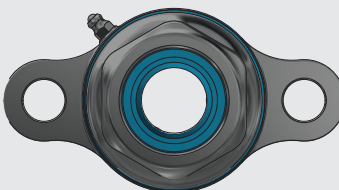
F



FL



FB

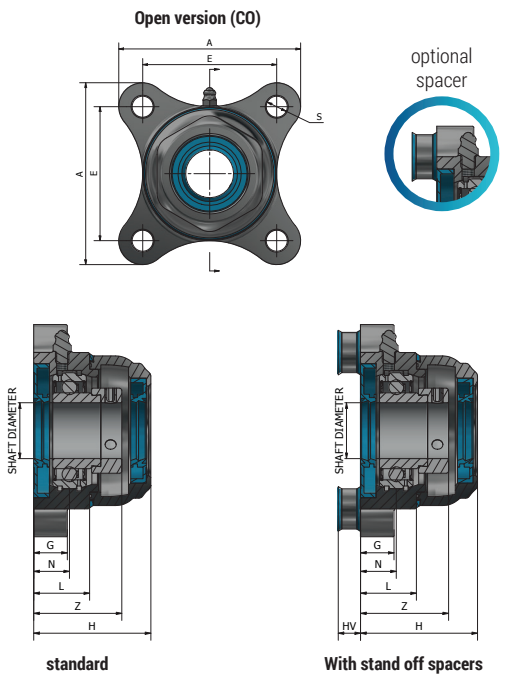
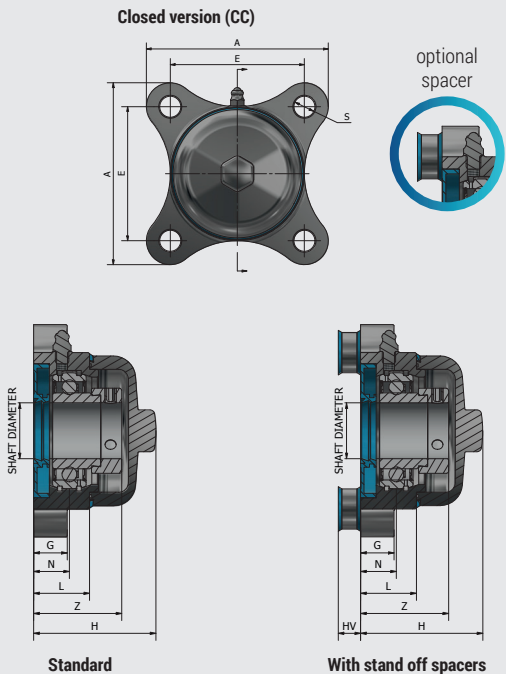


Alignment

When mounting Dertec Signature line fully sealed ball bearing units it is important for the performance and longevity of the bearing that any misalignment is limited to +/- 1 degree.



DH LASS SA F DERTEC 4 HOLE SS FLANGED UNITS



TYPE	SHAFT Ø	A	E	G	H	HV	L	N	S	Z
DH LASS SA F 204 CC	20	88	64	15	54,2	10	24	15	12	38,9
DH LASS SA F 204 CO					51,9					
DH LASS SA F 205 CC	25	95	70	15	54,7	10	25	16	12	39,4
DH LASS SA F 205 CO					52,4					
DH LASS SA F 206 CC	30	108	83	15	61	10	29	18	12	45,7
DH LASS SA F 206 CO					58,7					
DH LASS SA F 207 CC	35	117	92	17	64,7	10	31	19	14	49,4
DH LASS SA F 207 CO					62,4					
DH LASS SA F 208 CC	40	130	102	17	70	10	32	21	16	55,7
DH LASS SA F 208 CO					70,7					
DH LASS SA F 209 CC	45	135	105	18	71,5	10	33	22	16	56,2
DH LASS SA F 209 CO					69,2					
DH LASS SA F 210 CC	50	143	111	20	71	10	38	25	16	55,7
DH LASS SA F 210 CO					72,7					



Stainless Steel SA insert, with eccentric ring

TYPE	SHAFT Ø	A	E	G	H	HV	L	N	S	Z
DH LASS SA F 206 CC P77	30	105	77	15	61	10	29	18	11	45,7
DH LASS SA F 206 CO P77					57,7					
DH LASS SA F 207 CC P82,5	35	108	82,5	17	64,7	10	31	19	11	49,4
DH LASS SA F 207 CO P82,5					62,4					
DH LASS SA F 208 CC P119	40	119	92	17	70	10	33	21	14	55,7
DH LASS SA F 208 CO P119					70,7					

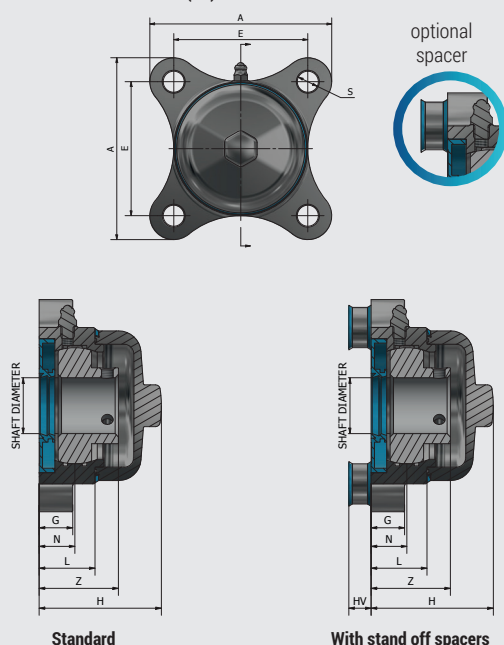
Alternate Bearing housings

* All sizes in mm
Housing material: **Stainless steel 316**
For spacers see page 10
Bearing material: **AISI 440**

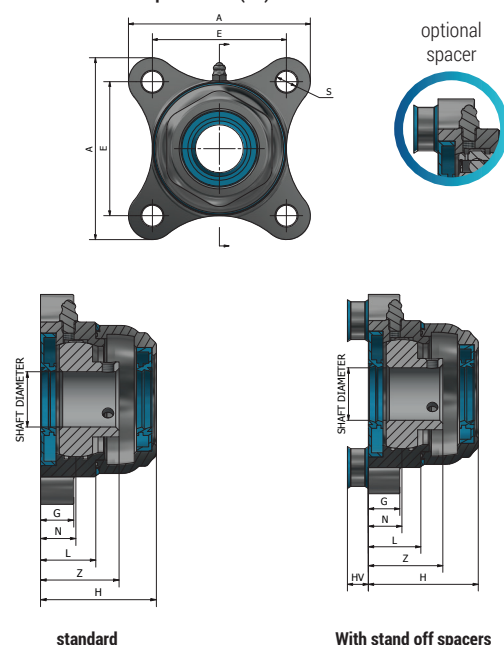


DH LASS SB F DERTEC 4 HOLE SS FLANGED UNITS

Closed version (CC)



Open version (CO)



TYPE	SHAFT Ø	A	E	G	H	HV	L	N	S	Z
DH LASS SB F 204 CC	20	88	64	15	54,2	10	24	15	12	33
DH LASS SB F 204 CO					51,9					
DH LASS SB F 205 CC	25	95	70	15	54,7	10	25	16	12	35,5
DH LASS SB F 205 CO					52,4					
DH LASS SB F 206 CC	30	108	83	15	61	10	29	18	12	40
DH LASS SB F 206 CO					58,7					
DH LASS SB F 207 CC	35	117	92	17	64,7	10	31	19	14	42,5
DH LASS SB F 207 CO					62,4					
DH LASS SB F 208 CC	40	130	102	17	70	10	32	21	16	46
DH LASS SB F 208 CO					70,7					
DH LASS SB F 209 CC	45	135	105	18	71,5	10	33	22	16	53,7
DH LASS SB F 209 CO					69,2					
DH LASS SB F 210 CC	50	143	111	20	71	10	38	25	16	55
DH LASS SB F 210 CO					72,7					



Stainless Steel SB insert, with grub screw

TYPE	SHAFT Ø	A	E	G	H	HV	L	N	S	Z
DH LASS SB F 206 CC P77	30	105	77	15	61	10	29	18	11	40
DH LASS SB F 206 CO P77					58,7					
DH LASS SB F 207 CC P82,5	35	108	82,5	17	64,7	10	31	19	11	42,5
DH LASS SB F 207 CO P82,5					62,4					
DH LASS SB F 208 CC P119	40	119	92	17	70	10	33	21	14	46
DH LASS SB F 208 CO P119					70,7					

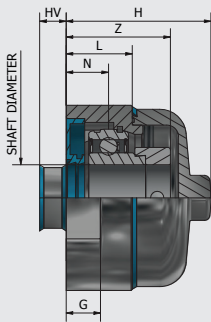
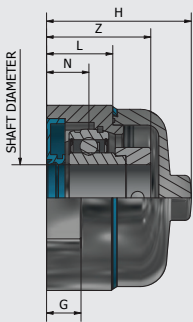
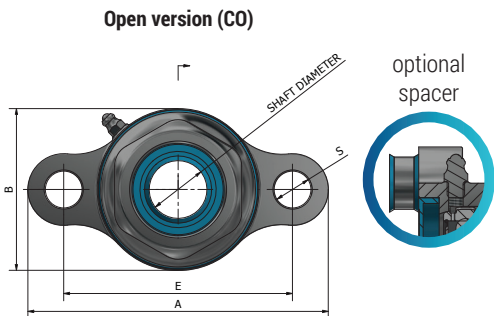
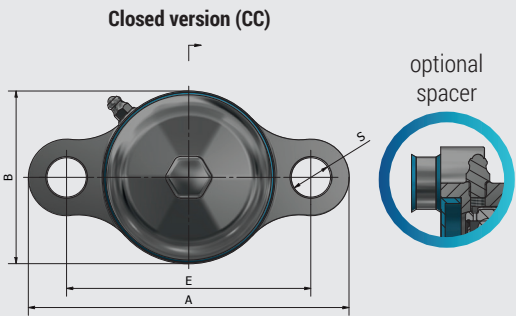
Alternate Bearing housings

* All sizes in mm
For spacers see page 10

Housing material: **Stainless steel 316**
Bearing material: **AISI 440**

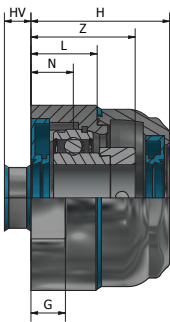
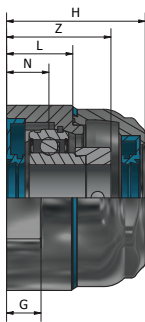


DH LASS SA FL DERTEC 2 HOLE SS FLANGED UNITS



Standard

With stand off spacers



Standard

With stand off spacers

TYPE	SHAFT Ø	A	B	E	G	H	HV	L	N	S	Z
DH LASS SA FL 204 CC	20	115	65	90	11	54,2	10	24	15	12	38,9
DH LASS SA FL 204 CO						51,9					
DH LASS SA FL 205 CC	25	130	70	99	13	54,7	10	25	16	16	39,4
DH LASS SA FL 205 CO						52,4					
DH LASS SA FL 206 CC	30	148	80	117	13	61	10	29	18	16	45,7
DH LASS SA FL 206 CO						58,7					
DH LASS SA FL 207 CC	35	161	90	130	15	64,7	10	31	19	16	49,4
DH LASS SA FL 207 CO						62,4					
DH LASS SA FL 208 CC	40	175	100	144	15	70	10	32	21	16	55,7
DH LASS SA FL 208 CO						70,7					
DH LASS SA FL 209 CC	45	188	110	148	16	71,5	10	33	22	19	56,2
DH LASS SA FL 209 CO						69,2					
DH LASS SA FL 210 CC	50	197	120	157	16	71	10	38	22	19	55,7
DH LASS SA FL 210 CO						72,7					



Stainless Steel SA insert, with eccentric ring

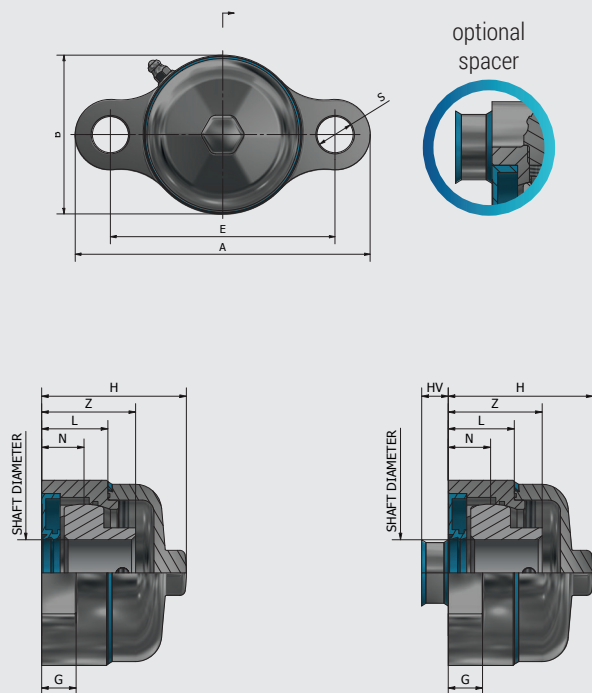
* All sizes in mm
For spacers see page 10

Housing material: **Stainless steel 316**
Bearing material: **AISI 440**



DH LASS SB FL DERTEC 2 HOLE SS FLANGED UNITS

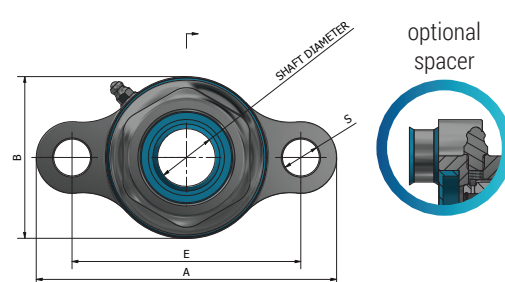
Closed version (CC)



Standard

With stand off spacers

Open version (CO)



Standard

With stand off spacers

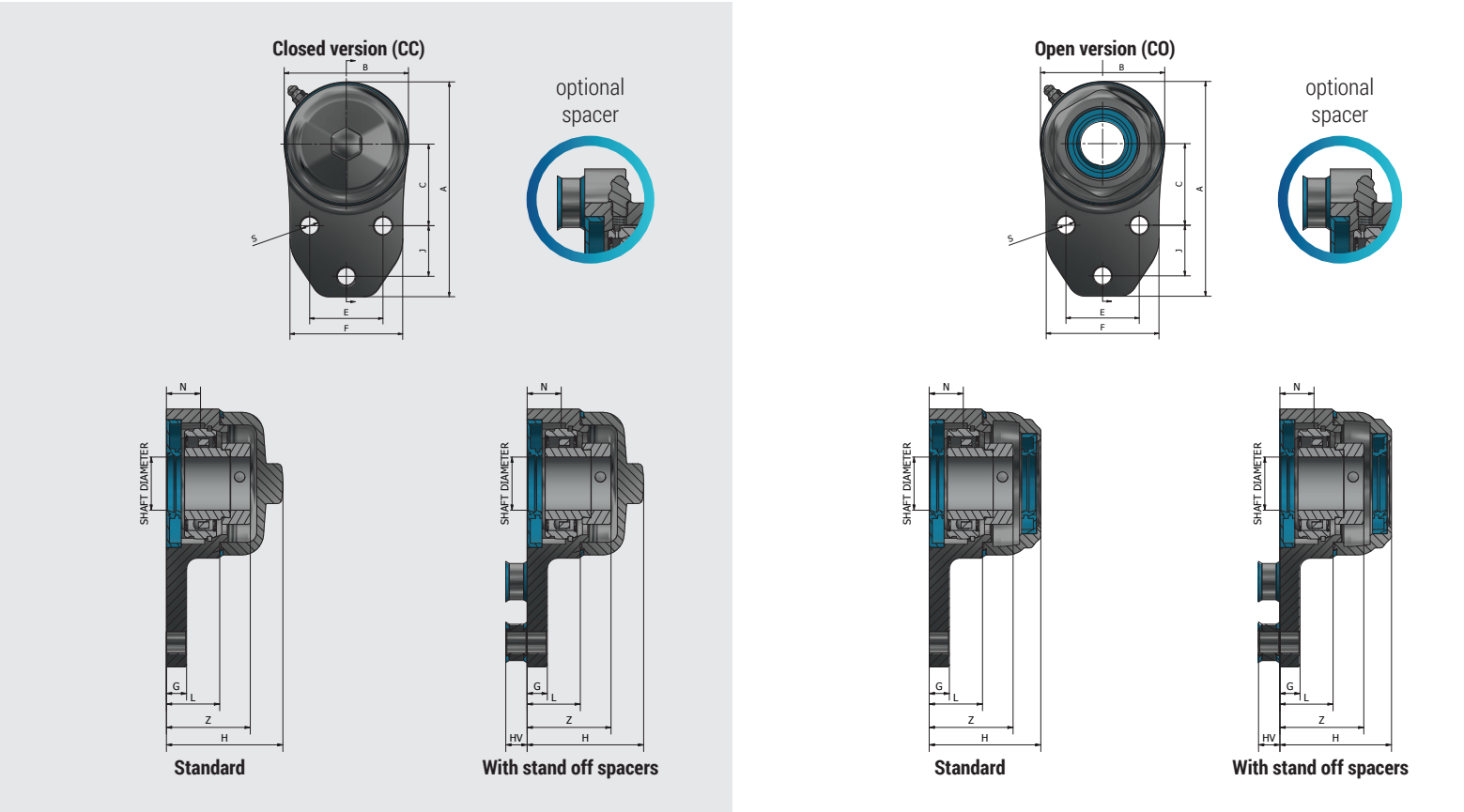
TYPE	SHAFT Ø	A	B	E	G	H	HV	L	N	S	Z
DH LASS SB FL 204 CC	20	115	65	90	11	54,2	10	24	15	12	33
DH LASS SB FL 204 CO						51,9					
DH LASS SB FL 205 CC	25	130	70	99	13	54,7	10	25	16	16	35,5
DH LASS SB FL 205 CO						52,4					
DH LASS SB FL 206 CC	30	148	80	117	13	61	10	29	18	16	40
DH LASS SB FL 206 CO						58,7					
DH LASS SB FL 207 CC	35	161	90	130	15	64,7	10	31	19	16	42,5
DH LASS SB FL 207 CO						62,4					
DH LASS SB FL 208 CC	40	175	100	144	15	70	10	32	21	16	46
DH LASS SB FL 208 CO						70,7					
DH LASS SB FL 209 CC	45	188	110	148	16	71,5	10	33	22	19	53,7
DH LASS SB FL 209 CO						69,2					
DH LASS SB FL 210 CC	50	197	120	157	16	71	10	38	22	19	55
DH LASS SB FL 210 CO						72,7					



Stainless Steel SB insert, with grub screw



DH LASS SA FB DERTEC 3 HOLE SS FLANGED UNITS



TYPE	SHAFT Ø	A	B	C	E	F	G	H	HV	J	L	N	S	Z
DH LASS SA FB 204 CC	20	108	65	43,3	38,1	60,3	8	54,2	10	22	24	15	10	38,9
DH LASS SA FB 204 CO								51,9						
DH LASS SA FB 205 CC	25	121	70	46	41,3	63,5	9,5	54,7	10	28,5	25	16	10	39,4
DH LASS SA FB 205 CO								52,4						
DH LASS SA FB 206 CC	30	137	80	52,4	47,6	70	9,5	61	10	31,7	29	18	10	45,7
DH LASS SA FB 206 CO								58,7						
DH LASS SA FB 207 CC	35	156	90	60,3	50,8	83	12,7	64,7	10	31,7	31	19	13	49,4
DH LASS SA FB 207 CO								62,4						
DH LASS SA FB 208 CC	40	164	100	60,3	50	78	15,9	70	10	41,3	32	21	12	55,7
DH LASS SA FB 208 CO								70,7						
DH LASS SA FB 209 CC	45	176	110	65	54	80	18,3	71,5	10	42,9	33	22	12	56,2
DH LASS SA FB 209 CO								69,2						
DH LASS SA FB 210 CC	50	190	120	74,6	70	102	12,7	71	10	41,3	38	22	13	55,7
DH LASS SA FB 210 CO								72,7						



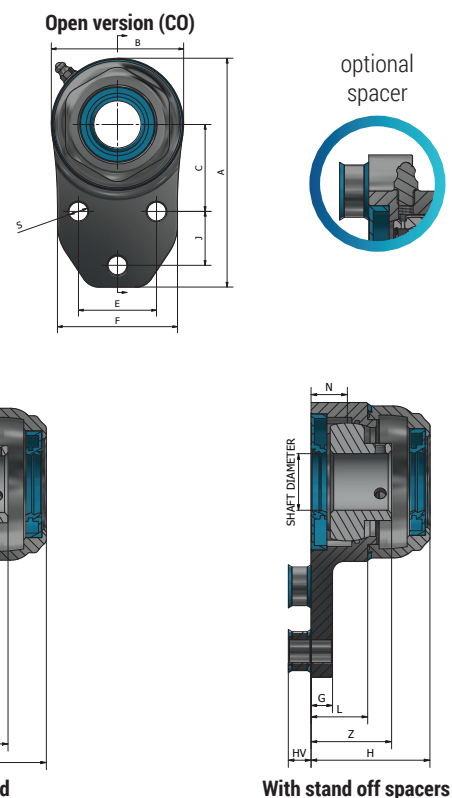
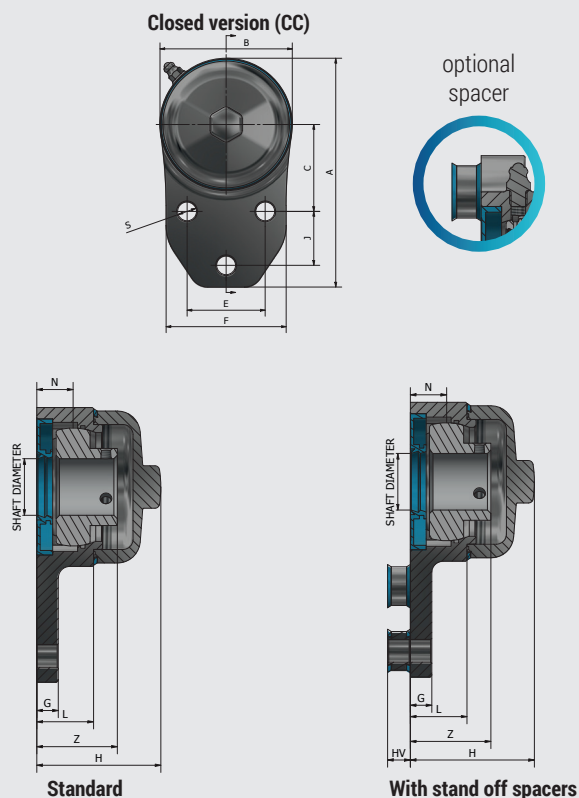
Stainless Steel SA insert, with eccentric ring

* All sizes in mm
For spacers see page 10

Housing material: **Stainless steel 316**
Bearing material: **AISI 440**



DH LASS SB FB DERTEC 3 HOLE SS FLANGED UNITS



TYPE	SHAFT Ø	A	B	C	E	F	G	H	HV	J	L	N	S	Z
DH LASS SB FB 204 CC	20	108	65	43,3	38,1	60,3	8	54,2	10	22	24	15	10	33
DH LASS SB FB 204 CO								51,9						
DH LASS SB FB 205 CC	25	121	70	46	41,3	63,5	9,5	54,7	10	28,5	25	16	10	35,5
DH LASS SB FB 205 CO								52,9						
DH LASS SB FB 206 CC	30	137	80	52,4	47,6	70	9,5	61	10	31,7	29	18	10	40
DH LASS SB FB 206 CO								58,7						
DH LASS SB FB 207 CC	35	156	90	60,3	50,8	83	12,7	64,7	10	31,7	31	19	13	42,5
DH LASS SB FB 207 CO								62,4						
DH LASS SB FB 208 CC	40	164	100	60,3	50	78	15,9	70	10	41,3	32	21	12	46
DH LASS SB FB 208 CO								70,7						
DH LASS SB FB 209 CC	45	176	110	65	54	80	18,3	71,5	10	42,9	33	22	12	53,7
DH LASS SB FB 209 CO								69,2						
DH LASS SB FB 210 CC	50	190	120	74,6	70	102	12,7	71	10	41,3	38	22	13	55
DH LASS SB FB 210 CO								72,5						



Stainless Steel SB insert, with grub screw

* All sizes in mm
For spacers see page 10

Housing material: **Stainless steel 316**
Bearing material: **AISI 440**



DHLASS Bearing load DERTEC HYGIENIC BEARINGS

DH LASS SA F DERTEC 4 HOLE SS FLANGED UNITS

type of load	204	205	206	207	208	209	210
	15950	13000	18000	18500	19100	19350	19650
	10250	12150	17700	18500	19250	19350	19620
	3650	3350	3350	3520	3790	3850	3990

DH LASS SA FL DERTEC 2 HOLE SS FLANGED UNITS

type of load	204	205	206	207	208	209	210
	11750	11375	16450	16900	17350	17600	17950
	11000	13850	13350	13950	14050	14300	14550
	8500	1100	14200	14900	15150	15350	15650

DH LASS SA FB DERTEC 3 HOLE SS FLANGED UNITS

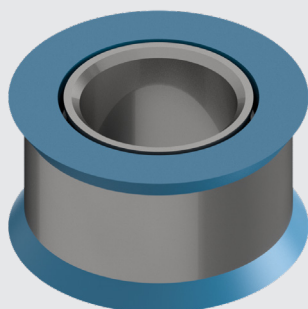
type of load	204	205	206	207	208	209	210
	-	-	-	7200	9100	12200	12900
	-	-	-	9200	11100	11800	11900
	-	-	-	2600	2800	2900	3100



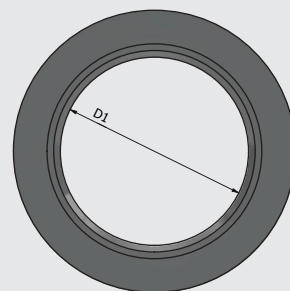
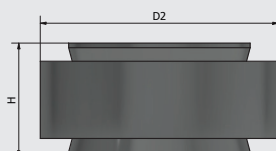
loads in N



DH LASS SPA DERTEC HYGIENIC SPACERS



DHLASS SPA



Bearing type	Compatible Spacer
DHLASS F 204	DHLASS SPA 11 18 10
DHLASS F 205	DHLASS SPA 11 18 10
DHLASS F 206	DHLASS SPA 11 18 10
DHLASS F 207	DHLASS SPA 11 18 10
DHLASS F 208	DHLASS SPA 14 21 10
DHLASS F 209	DHLASS SPA 16 23 10
DHLASS F 210	DHLASS SPA 16 23 10

Spacer (DHLASS BUS)					Ring (DHRGS)	
Spacer type	D1	D2	H	QTY	Ring type	QTY
DHLASS BUS 11 18 10	11	18	10	4	DHRGS 16	8
DHLASS BUS 11 18 10	11	18	10	4	DHRGS 16	8
DHLASS BUS 11 18 10	11	18	10	4	DHRGS 16	8
DHLASS BUS 11 18 10	11	18	10	4	DHRGS 16	8
DHLASS BUS 14 21 10	14	21	10	4	DHRGS 19	8
DHLASS BUS 16 23 10	16	23	10	4	DHRGS 21	8
DHLASS BUS 16 23 10	16	23	10	4	DHRGS 21	8

Bearing type	Compatible Spacer
DHLASS FL 204	DHLASS SPA 13 20 10
DHLASS FL 205	DHLASS SPA 16 23 10
DHLASS FL 206	DHLASS SPA 16 23 10
DHLASS FL 207	DHLASS SPA 16 23 10
DHLASS FL 208	DHLASS SPA 16 23 10
DHLASS FL 209	DHLASS SPA 19 26 10
DHLASS FL 210	DHLASS SPA 19 26 10

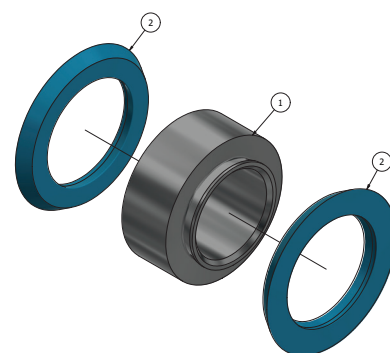
Spacer (DHLASS BUS)					Ring (DHRGS)	
Spacer type	D1	D2	H	QTY	Ring type	QTY
DHLASS BUS 13 20 10	13	20	10	2	DHRGS 18	4
DHLASS BUS 16 23 10	16	23	10	2	DHRGS 21	4
DHLASS BUS 16 23 10	16	23	10	2	DHRGS 21	4
DHLASS BUS 16 23 10	16	23	10	2	DHRGS 21	4
DHLASS BUS 16 23 10	16	23	10	2	DHRGS 21	4
DHLASS BUS 19 26 10	19	26	10	2	DHRGS 24	4
DHLASS BUS 19 26 10	19	26	10	2	DHRGS 24	4

Bearing type	Compatible Spacer
DHLASS FB 204	DHLASS SPA 10 17 10
DHLASS FB 205	DHLASS SPA 10 17 10
DHLASS FB 206	DHLASS SPA 10 17 10
DHLASS FB 207	DHLASS SPA 13 20 10
DHLASS FB 208	DHLASS SPA 13 20 10
DHLASS FB 209	DHLASS SPA 13 20 10
DHLASS FB 210	DHLASS SPA 13 20 10

Spacer (DHLASS BUS)					Ring (DHRGS)	
Spacer type	D1	D2	H	QTY	Ring type	QTY
DHLASS BUS 10 17 10	10	17	10	3	DHRGS 15	6
DHLASS BUS 10 17 10	10	17	10	3	DHRGS 15	6
DHLASS BUS 10 17 10	10	17	10	3	DHRGS 15	6
DHLASS BUS 13 20 10	13	20	10	3	DHRGS 18	6
DHLASS BUS 13 20 10	13	20	10	3	DHRGS 18	6
DHLASS BUS 13 20 10	13	20	10	3	DHRGS 18	6
DHLASS BUS 13 20 10	13	20	10	3	DHRGS 18	6



DHRGS Ring



Number	Part	Material
1	DHLASS BUS	SS 316
2	DHRGS Ring	Blue silicon



Installation Guide

Bearing size	DH LASS F	DH LASS FL	DH LASS FB
	G		
204	15	11	8
205	15	13	9,5
206	15	13	9,5
207	17	15	12,7
208	17	15	15,9
209	18	16	18,3
210	20	16	12,7

Bearing size	DH LASS F	DH LASS FL	DH LASS FB
	Bolt / Nut		
204	M10	M10	M8
205	M10	M14	M8
206	M10	M14	M8
207	M10	M14	M12
208	M12	M14	M10
209	M14	M18	M10
210	M14	M18	M12

For hygienic bolts and nuts see ...

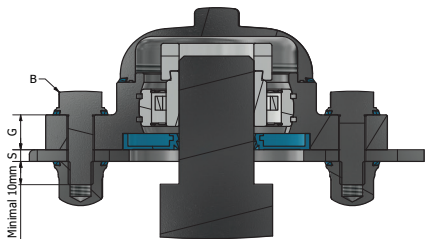
Bearing size	DH LASS F	DH LASS FL	DH LASS FB
	L		
204	10	10	10
205	10	10	10
206	10	10	10
207	10	10	10
208	10	10	10
209	10	10	10
210	10	10	10

For spacers see page 10

Frame mounted bearings

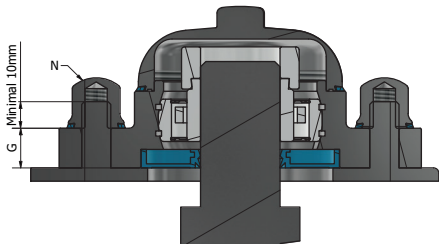
Bolt + nut configuration

Bolt length = 10 + S + G



Threaded rod + nut configuration

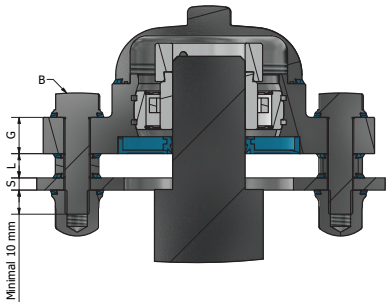
Rod length = 10 + G



Stand-off mounted bearings

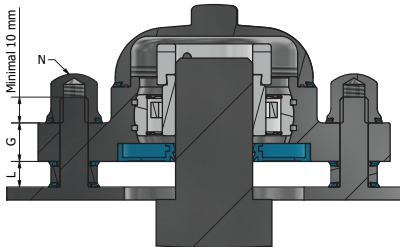
Bolt + spacer + nut configuration

Bolt length = 10 + S + L + G



Threaded rod + spacer + nut configuration

Rod length = 10 + G + L



All sizes in mm



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Dertec SL Bearing Documentatie-2021-007

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