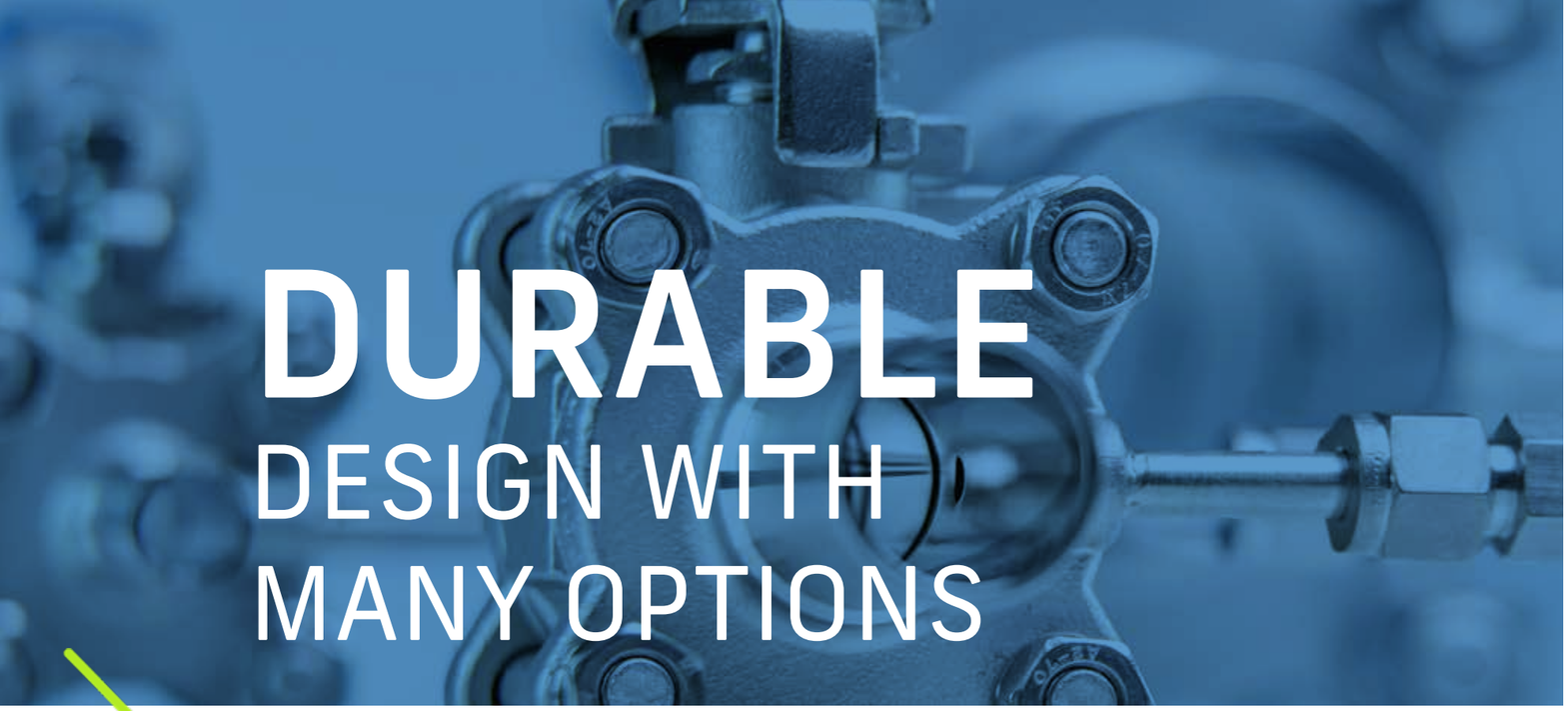
DOCKWEILER

connecting flow to purity



BALL VALVES

FOR CFOS APPLICATIONS



DURABLE
DESIGN WITH MANY OPTIONS

THE MODULAR VALVE CONCEPT, ADAPTED TO YOUR MEDIA REQUIREMENTS – NOT THE OTHER WAY AROUND.

Highest purity requirements and operational reliability for the semiconductor industry and fine chemicals:

- **3-piece ball valve** for quick and easy maintenance
- **Sizes from 1/4" to 8"**
- **Pressure- and temperature-compensated seat design**
- **CFOS-compliant design with high purity:** tested for microcontaminants and cleaned in accordance with **CGA G-4.1** and **AASTM G93 (Class B)**
- **PFAS free** option available
- **Cleanroom assembly and packaging** to ensure media purity
- **High leak tightness:** factory leak test up to 1×10^{-10} atm cc/sec
- **Modular design** with tube connection, with CFOS compression fitting or with UHP face seal fitting
- Optional **purge ports** for Dockweiler ball valves with tube stub connection

Dockweiler is one of the pioneers in the development of high-purity tube systems for the semiconductor market. Today, the product range includes a wide selection of application-specific products and special manifolds.
DOCKWEILER BALL VALVES FIT SEAMLESSLY INTO THIS PORTFOLIO.



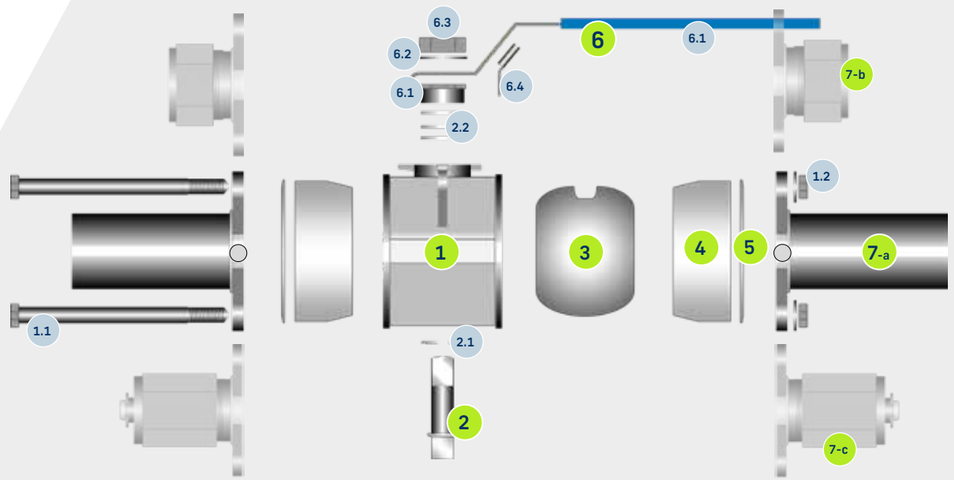
Dockweiler Ball Valve with tube stub connection and optional purge ports



Dockweiler Ball Valve with CFOS Compression Fitting



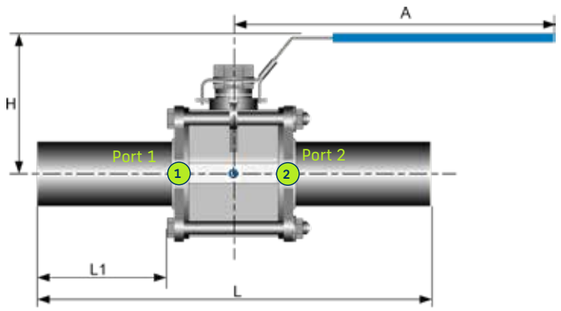
Dockweiler Ball Valve with UHP Face Seal Fitting



	Components	Materials
1	**Basic body**	CF8M / 14408
1.1	**Body bolts**	304
1.2	**Body nuts with washer**	304
2	**Stem**	316
2.1	**Stem disc**	PTFE
2.2	Stem packing	PTFE
2.3	Stem nut	304
3	**Ball**	CF8M
4	**Ball seal**	PTFE

	Components	Materials
5	Body seal	PTFE
6	**Handle**	304
6.1	Handle sleeve	Vinyl
6.2	Handle disc	304
6.3	Handle nut	304
6.4	Locking device	304
7-a	**Flange with tube stub (opt. purge port)**	CF3M / 14409
7-b	Flange with compression fitting	CF3M / 14409
7-c	Flange with face seal fitting	CF3M / 14409

DOCKWEILER BALL VALVES:
SOLID AND CONSIDERED DESIGN WITH A WIDE RANGE OF OPTIONS.



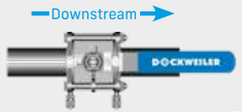
Dockweiler Ball Valve
with tube stub connection and optional purge ports

without Purge Ports

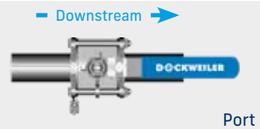


Port 1: **TX** = no Port
Port 2: **TX** = no Port

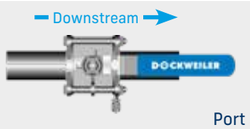
Purge Ports **with Compression Fitting**



Port 1: **TC** = Compression
Port 2: **TC** = Compression



Port 1: **TC** = Compression
Port 2: **TX** = no Port



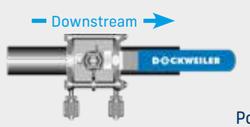
Port 1: **TX** = no Pot
Port 2: **TC** = Compression

Optional **Female Connections**

For Purge Ports with a female connections please adjust the order code:

Connection	Male		Female
Compression	TC	→	T**D**
Face Seal	TF	→	T**G**

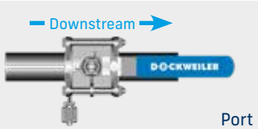
Purge Ports **with Face Seal Fitting**



Port 1: **TF** = Face Seal
Port 2: **TF** = Face Seal

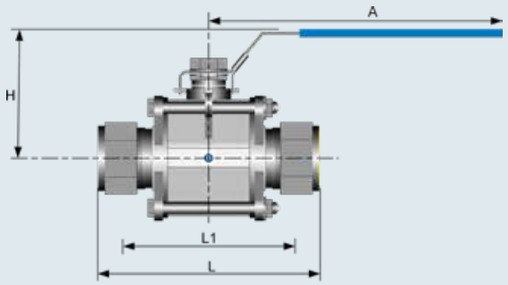


Port 1: **TX** = no Port
Port 2: **TF** = Face Seal



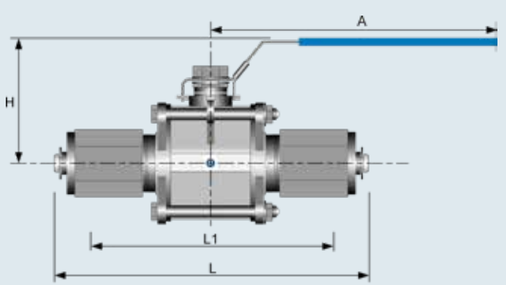
Port 1: **TF** = Face Seal
Port 2: **TX** = no Port

OD		WT	Orifice	H	A	L1*	L*	Weight	Cv value	PN	Order Code		No Ports	Ports with Compression Fitting			Ports with Face Seal Fitting			Port / Tube ⌀
Inch		Inch	Inch	Inch	Inch	Inch	Inch	lb	US gal/min	psi			1	2	3	4	5	6	7	Inch
1/4"	0.25	0.035	0.18	1.59	3.62	0.45	2.83	1.32	1,16	1885.49	T-B3-04	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
3/8"	0.38	0.035	0.31	1.59	3.62	0.45	2.83	1.32	2,66	1885.49	T-B3-06	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
1/2"	0.50	0.049	0.40	1.97	4.33	1.32	4.92	0.88	18,50	913.74	T-B3-08	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
3/4"	0.75	0.065	0.62	2.09	4.33	1.56	5.59	1.37	35,84	913.74	T-B3-12	-	TXTX	TCTC	TCTX	TCTX	TFTF	TXTF	TFTX	1/4
1"	1.00	0.065	0.87	2.68	5.71	1.77	6.38	2.03	50,86	913.74	T-B3-16	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
1 1/2"	1.50	0.065	1.37	3.39	7.09	1.63	7.17	4.48	202,30	913.74	T-B3-24	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
2"	2.00	0.065	1.87	3.70	7.09	1.61	7.60	7.10	351,42	913.74	T-B3-32	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/4
2 1/2"	2.50	0.065	2.37	5.79	8.86	1.95	10.00	20.28	647,36	725.19	T-B3-40	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/2
3"	3.00	0.065	2.87	6.18	8.86	1.93	10.94	31.45	1098,20	725.19	T-B3-48	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/2
4"	4.00	0.083	3.83	7.40	12.60	1.97	12.01	51.37	2098,14	725.19	T-B3-64	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/2
6"	6.00	0.109	5.78	15.41	9.37	3.05	16.34	143.30	5103,74	232.06	T-B3-96	-	TXTX	TCTC	TCTX	TXTC	TFTF	TXTF	TFTX	1/2
8" NPS	8.63	0.148	8.33	18.82	11.02	3.88	20.51	253.53	9494,23	232.06	T-B3-128	-	PXPX	PCPC	PCPX	PXTC	PFPF	PXPF	PFPX	1/2



Dockweiler Ball Valve with CFOS Compression Fitting

OD	L1	L	H	A	Weight	Order Code
Inch	Inch	Inch	Inch	Inch	lb	
1/4"	2.83	3.39	1.59	3.62	1.34	CXCX
3/8"	2.83	3.43	1.59	3.62	1.37	CXCX
1/2"	2.83	3.62	1.59	3.62	1.43	CXCX
3/4"	3.27	4.09	1.69	4.41	2.07	CXCX
1"	3.54	4.53	1.72	4.41	2.47	CXCX



Dockweiler Ball Valve with UHP Face Seal Fitting

OD	L1	L	H	A	Weight	Order Code
Inch	Inch	Inch	Inch	Inch	lb	
1/4"	3.62	4.17	1.59	3.62	1.39	FXFX
3/8"	3.62	4.21	1.59	3.62	1.41	FXFX
1/2"	3.82	4.41	1.59	3.62	1.48	FXFX
3/4"	4.06	4.88	1.69	4.41	2.12	FXFX
1"	4.33	5.31	1.72	4.41	2.51	FXFX

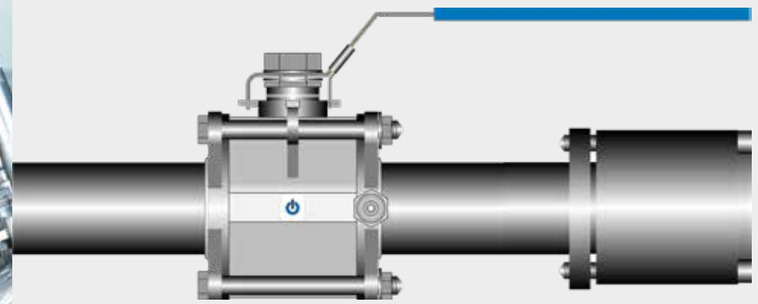


RANGE OF APPLICATIONS

PROVEN AND RELIABLE



5



Dockweiler Cap System:
Stay flexible for future expansions

4

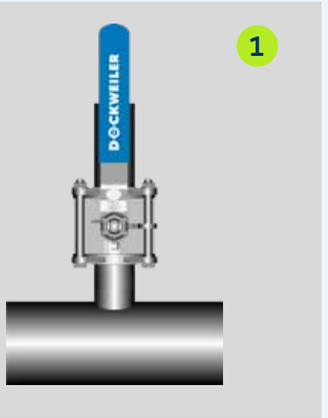
CUSTOM-MADE
WITH PROVEN DOCKWEILER PRODUCTS

In high-tech industries (e.g., semiconductor manufacturing, pharmaceuticals, energy, chemicals) a precise, safe and contamination-free gas supply plays a central role. They serve as a key shut-off element in gas distribution systems, safety shut-offs and high-pressure and process gas lines:

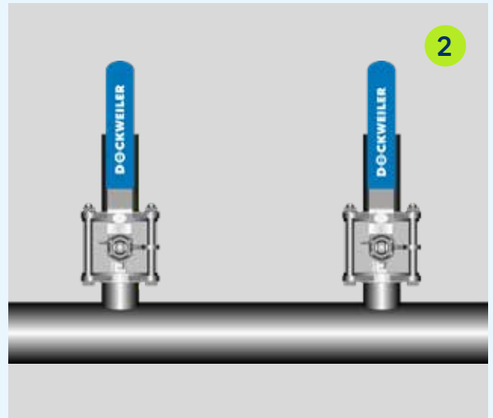
For modern gas supply systems – especially in high-tech industries – prefabricated, modular components are particularly advantageous because they reduce installation time, minimize sources of error and guarantee high quality standards. Ball valves are often an integral part of these assemblies.

Easy installation with customized solutions. For example:

- T-ball valve (1) or double T-ball valve (2)
- Cross-T ball valve (3)
- or ball valve with cap system (4)
- all the way to prefabricated manifolds (5)



1



2



3

DOCKWEILER CFOS MANIFOLDS
COST SAVINGS THROUGH PREFABRICATION

Our goal is to develop the best solution for your process. This means cost savings in both component manufacturing and installation. We see ourselves as a technology partner for efficiency.

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