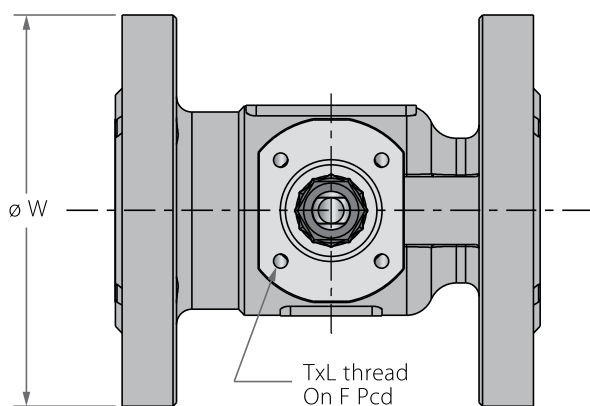
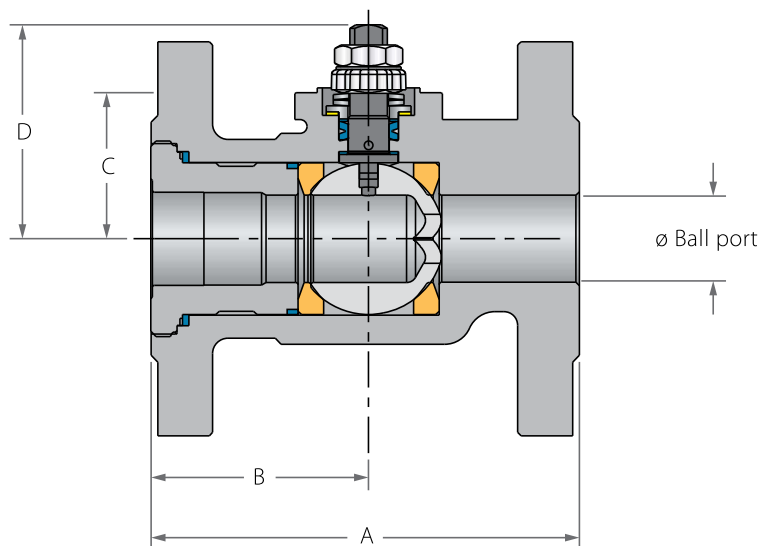
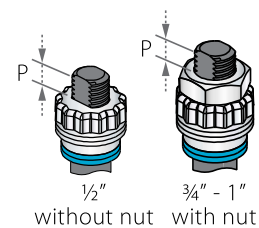


Control Flanged Floating Ball

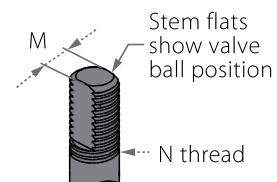
Valve dimensions



Preparation for actuation



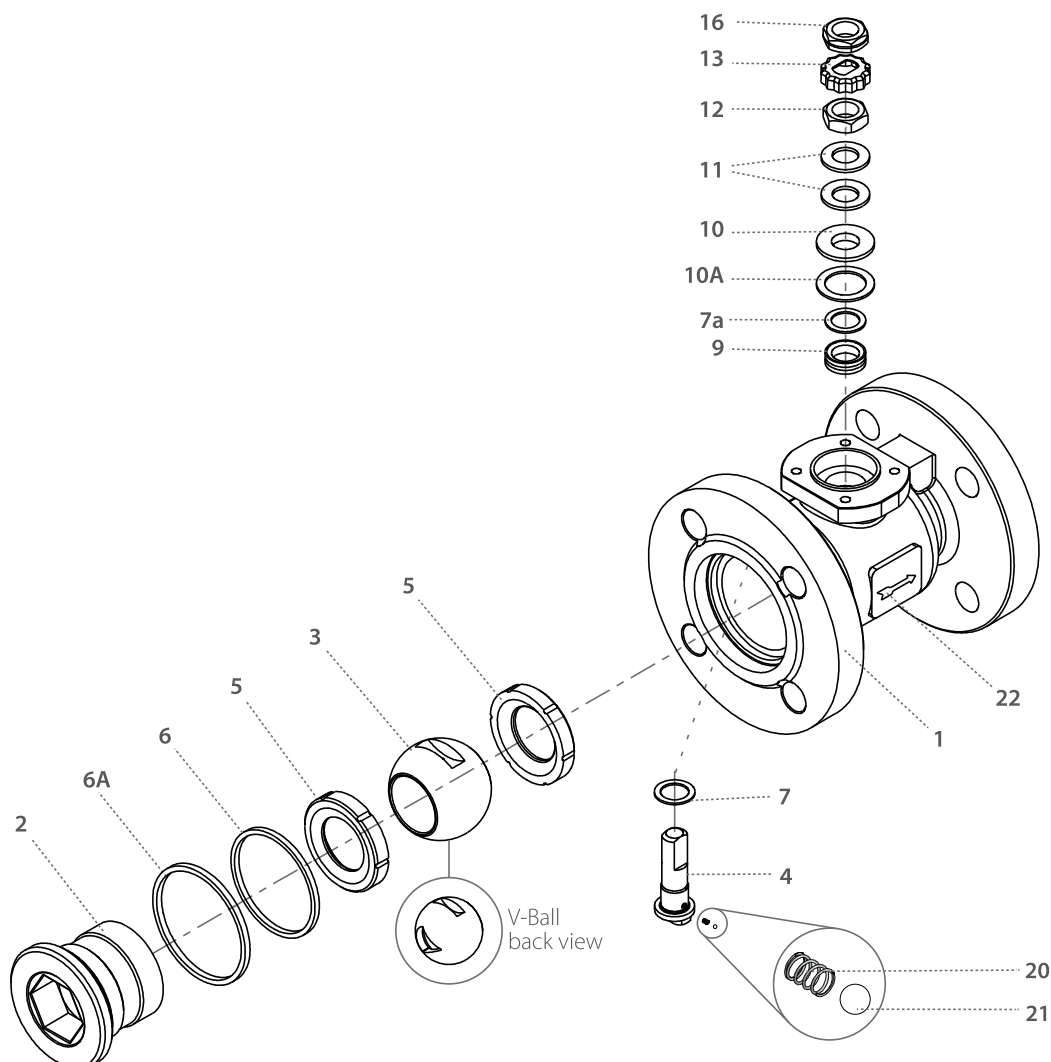
1/2" without nut 3/4" - 1" with nut



Std. port	Unit	Ball port	A		B	C	D	W	M	N	P	Q	F	TxL	Weight kg/lb	
			F1	F2											F1	F2
DN15	mm	14.30	130.00	115.00	48.00	31.50	40.50	5.54	5.54	3/8" UNF	6.65	95.00	(F03)	36.00	2.2	2.1
1/2"	inch	0.56	5.12	4.53	1.89	1.24	1.59	0.22	0.22		0.26	3.74		1.42	4.80	4.60
DN20	mm	20.60	150.00	120.00	58.00	38.30	56.50	7.54	7.54	7/16" UNF	7.40	105.00	(F04)	42.00	3.2	3
3/4"	inch	0.81	5.91	4.72	2.28	1.51	2.22	0.30	0.30		0.29	4.13		1.65	7.00	6.60
DN25	mm	25.40	160.00	125.00	63.50	41.80	61.00	7.54	7.54	7/16" UNF	7.40	115.00	(F04)	42.00	4.2	4
1"	inch	1.00	6.30	4.92	2.50	1.65	2.40	0.30	0.30		0.29	4.53		1.65	9.20	8.8

Control Flanged Floating Ball

Valve dimensions



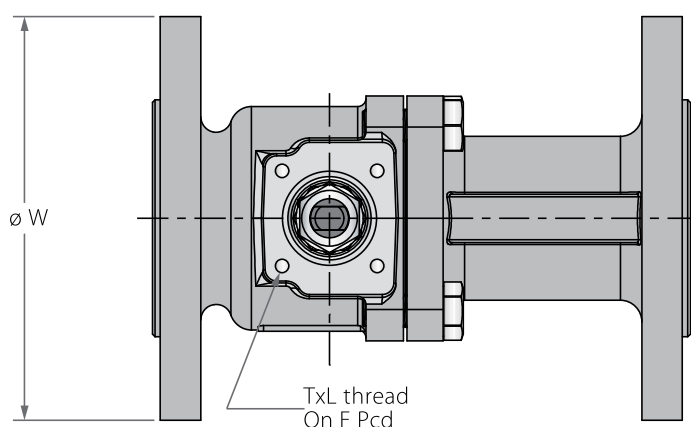
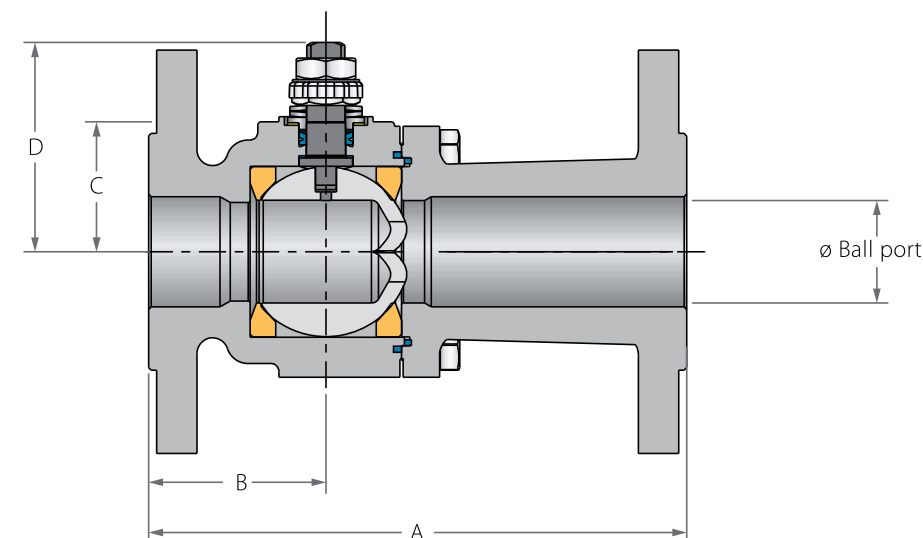
Item	Description	Material specification	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	1
3	Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
6*	Body seal	PTFE	1
6A*	Outer seal	Acc. Ordering Code	1
7	Stem thrust seal	CF PEEK, PCTFE, CF PTFE	1
7a*	Anti-abrasion ring	CF PEEK, PCTFE, CF PTFE	1
9*	Stem seal	CF PTFE, TFM	1
10	Follower	S. Steel	1

Item	Description	Material specification	Qty.
10A	Slide bearing	S. Steel	1
11	Disc spring	S. Steel	2
12	Stem nut	S. Steel	1
13	Locking clip	S. Steel	1
16	Handle nut	S. Steel	1
20	Anti-static spring	S. Steel	1
21	Anti-static plunger	S. Steel	1
22	Arrow Flow	S. Steel	2
23	Tag (not shown)	S. Steel	1

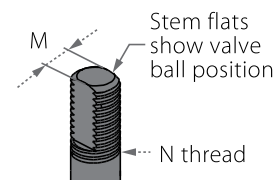
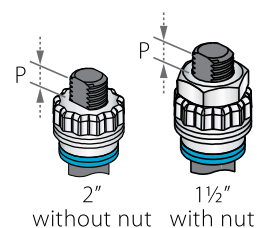
* Standard items supplied in repair kits

Control Flanged Floating Ball

Valve dimensions



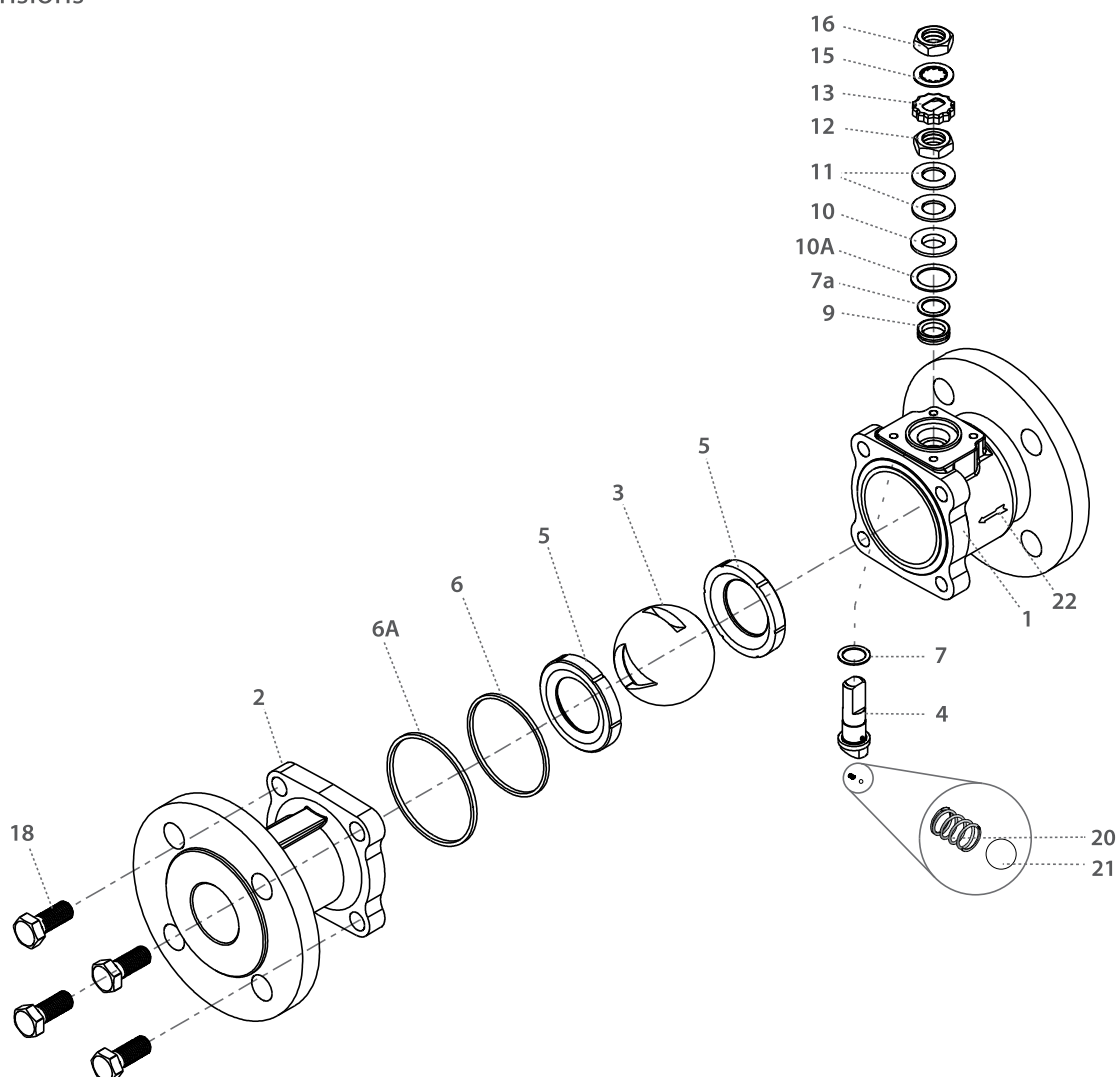
Preparation for actuation



Std. port	Unit	Ball port	A		B	C	D	W	M	N	P	F	TxL	Weight kg/lb		
			F1	F4										F1	F4	
DN40	mm	38.10	200.00	140.00	48.30	65.90	77.80	150.00	8.70	3/16" UNF	19.60	(F05)	50.00	M6x12	10.90	10.30
1½"	inch	1.50	7.87	5.51	1.90	2.59	3.06	5.91	0.34		0.77		1.97		24.00	22.70
DN50	mm	50.00	230.00	150.00	78.00	60.70	119.00	165.00	8.70	M16	11.00	(F07)	70.00	M8x12	15.00	13.00
2"	inch	2.00	9.06	5.91	3.07	2.39	4.69	6.50	0.34		0.43		2.76		33.00	28.60

Control Flanged Floating Ball

Valve dimensions



Item	Description	Material specification	Qty.
1	Body	Acc. Ordering Code	1
2	End	Acc. Ordering Code	1
3	V-Ball	Acc. Ordering Code	1
4	Stem	Acc. Ordering Code	1
5*	Seat	Acc. Ordering Code	2
6*	Body seal	PTFE	1
6A*	Outer seal	Acc. Ordering Code	1
7*	Stem thrust seal	CF PEEK, PCTFE, CF PTFE	1
7a*	Anti-abrasion ring	CF PEEK, PCTFE, CF PTFE	1
9*	Stem seal	CF PTFE, TFM	1
10	Follower	S. Steel	1
10A	Slide bearing	S. Steel	1

Item	Description	Material specification	Qty.
11	Disc spring	S. Steel	2
12	Stem nut	S. Steel	1
13	Locking clip	S. Steel	1
15	Serrated washer	S. Steel	1
16	Handle nut	S. Steel	1
18	Body bolt	S. Steel	4-8
20	Anti-static spring	S. Steel	1
21	Anti-static plunger	S. Steel	1
22	Arrow Flow	S. Steel	2
23	Tag (not shown)	S. Steel	1

* Standard items supplied in repair kits

N31

N32

N73

N74

N77

N78



Control Flanged Floating Ball - Ordering Code System

"Mandatory option" options are marked with **green background** | "Standard offer" options are marked with **light green background**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	...	28	29	30
6	0				N	3	1	W	-	6	6	6	6	A	T	G	/	1	5	0		-	S	0	8	-	
Size		Features				Series		Design		Body/end materials		Ball/Stem material		Seat material	Inner Seal	Outer Seal		End Connection				Control Feature				Special features	

Size (1-2)		
Code	inch	mm
05	½"	8
07	¾"	10
10	1"	15
12	1¼"	20
15	1½"	25
20	2"	32
25	2½"	40
30	3"	50
40	4"	65
60	6"	80
80*	8"	100

* 31/32 series only

Features (3-6)	
N	Control service
F	Fire safe
O	Clean assembly for O2 service
C	Cryogenic [R]
Z	High Temp. (MTM) [R]
H	Hydrogen Service

Series (7-8)	
31	ANSI #150 std. port
32	ANSI #300 std. port
73	ANSI #150 full port
74	ANSI #300 full port
77	DIN PN 16 full port
78	DIN PN 40 full port

Design (9)	
W	Total HermetiX Integrity package
G	Total HermetiX Integrity package - FDA compliant [R]

Body/Ends material (11-12) [R]	
	Per base series

Ball material (13) [R]	
6	S. SteelCF8M/CF3M
M	High Strength S. Steel
W	Hasteloy-C22
S	254SMO
D	Duplex
K	Super Duplex
7	Monel
A	Alloy-20
C	Hasteloy-C276

Stem material (14)	
M	High Strength S. Steel
6	S. Steel316L
Z	Inconel 718 B637
W	Alloy-C22 B574
S	254SMO A479
A	Alloy-20 A351 CN7M
D	Duplex A479
K	Super Duplex A479
7	Monel
C	Hasteloy-C276

Seat material (15)	
P	CF PTFE
K	CF PEEK
A	TFM

Inner Seal material (16) [R]	
	Per base series

Outer Seal material (17) [R]	
	Per base series

End connections (19-22)	
Flanged	
150	ASME B16.5 #150 RF
300	ASME B16.5 #300 RF
PN16	EN1092 PN16 RF
PN40	EN1092 PN40 RF

Control Feature (24-28)	
V-Port	
S08*	0.8mm Slot on downstream seat
S16*	1.6mm Slot on downstream seat
S32*	3.2mm Slot on downstream seat
V30	V30° Shape on downstream seat
V60	V60° Shape on downstream seat
V90	V90° Shape on downstream seat

* Up to 1"

V-Ball	
SB08*	0.8mm Slot on ball
SB16*	1.6mm Slot on ball
SB32*	3.2mm Slot on ball
VB30	V30° Shape on ball
VB60	V60° Shape on ball
VB90	V90° Shape on ball

* Up to 1"

Ball/Down stream Seat Surface hardening	
PN*	Low Temperature Plasma carboNitriding (Standard)

* standard up to 2"

Hardening	
I*	Cr3C2 - Chromium Carbide with Nickel Chrome binder - HVOF technique
O	WC-Co - Tungsten Carbide with Cobalt binder - HVOF technique

* standard from 2-½" and up

Special Features (24-30) [R]	
	Per base series

[R]:

- For Cryogenic CNxx valve see options in Cryogenic chapter.
- For High Temp. (MTM) ZNxx valve see options in High Temp. (MTM) chapter.