

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]

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]	
6*	S. SteelCF8M/CF3M
4**	C. steel
W**	Hasteloy-C22
S**	254SMO
D**	Duplex
9**	Low Temp C. steel
K**	Super Duplex
7**	Monel
A**	Alloy-20
C**	Hasteloy-C276

* V-port must use St. St.;
St. St. is optional for V-ball
** V-ball only

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

Stem material (14)	
6	S. Steel316L
M	High Strength S. Steel
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]	
T	PTFE
A	TFM
G	Expanded graphite
U	UHMWPE
V	Viton
B	NBR [R]

Outer Seal material (17) [R]	
G	Expanded graphite
A	TFM

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 ⁰ Shape on downstream seat
V60	V60 ⁰ Shape on downstream seat
V90	V90 ⁰ 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 ⁰ Shape on ball
VB60	V60 ⁰ Shape on ball
VB90	V90 ⁰ 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]	
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[R]:

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