



How to Order OMB products

Guide on our series number systems

2019 rev2

OMB Series systems

OMB Series systems was introduced I 1973 when our company was making a very limited number of products.

We tried in this past 40 years to maintain a logic in the way we call our product and in this presentation we try to give you a guide to either decipher our system or to come up with a series.

We start with our forged steel valves (API602 and API600) presented in catalogs

C-18: Standard API602 valves

C-BS2: Bellows Seal valves

C-CR3: Cryogenic service valves

Note: in the US market the series number has been simplified: the main difference is the absence of the size from the serie and the use of the API trim numbers in the material description.



Gate, Globe and Check Range



	Standard									Bellows						Cryogenic								
	Catalog C-18									Catalog C-BS2						Catalog C-CR3								
	SW-NPT			FLANGED & BUTT WELD						SW, FLANGED & BW						SW, FLANGED & BW								
	#800	#1500	#2500	#150	#300	#600	#900	#1500	#2500	#800	#150	#300	#600	#900	#1500	#2500	#800	#150	#300	#600	#900	#1500	#2500	
1/2"	Green	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
3/4"	Green	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
1"	Green	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
1.1/2"	Green	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
2"	Green	Green	Green	Blue	Blue	Blue	Blue	Blue	Blue	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue	Light Blue
3"	Green			Blue	Blue	Blue	Blue	Blue	Blue	White	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	White	White	White	White	White	White	White	White
4"				Blue	Blue	Blue	Blue	Blue	Blue	White	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	White	White	White	White	White	White	White	White
6"				Blue	Blue	Blue	Blue	Blue	Blue	White	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	White	White	White	White	White	White	White	White
8"				Blue	Blue	Blue	Blue	Blue	Blue	White	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	White	White	White	White	White	White	White	White
10"-24"				Blue	Blue	Blue	Blue	Blue	Blue	White	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	Light Orange	White	White	White	White	White	White	White	White



OMB Series system: example

OMB Series is organized in 2 group

The **first group** give the mechanical attriute of the valves
This portion is independent from the material of construction
and identify a specific drawing with its set of components
Divided in 5 sections

- A- service
- B- flange/butt weld connection and classes
- C- core section define the central body (pressure, class, bore/port and size)
- D- trim design features
- E- Ends
- F- special design features

The **second group** identifies the material of the valve and trim
We use a simplified description coming from the ASTM materials definitions

A B C D E F Body-trim
CR-F6-833-I-RF-DP F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

I=Integral seat

DP= drip plate

F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat



OMB Series system: example II

OMB Series is organized in 2 group

The **first group** give the mechanical attriute of the valves
This portion is independent from the material of construction
and identify a specific drawing with its set of components
Divided in 5 sections

- A- service
- B- flange/butt weld connection and classes
- C- core section define the central body (pressure, class, bore/port and size)
- D- trim design features
- E- Ends
- F- special design features

The **second group** identifies the material of the valve and trim
We use a simplified description coming from the ASTM materials definitions

A B C D E F Body-trim
__ - __ - **MLA814** - __ - __ - **A105N-F6HFS**

""=standard

""=not flanged

MLA814= Extended body, Welded Bonnet

NPT Male end x FNPT , 800 class body, Gate, RB, 3/4"

""= no special trim

""=no special features

A105N= body in ASTM A105N

F6HFS= trim 13% chrome
Hard Faced Seat



OMB Series system: Service

A B C D E F Body-trim
CR-F6-833-I-RF-DP F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

I=Integral seat


DP= drip plate

F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat

Service

none	Standard
 CR	Ext. Bonnet Full Pen
CB	Ext Bonnet- Cold Box
CI	Ext Bonnet - Integral Bonnet
CC	Ext Bonnet - Yoke & Col Bonnet
SF	Bellows
E	Eco-L-Valve
AG	Angle Globe
SC	Self Closing
PS	Pressure Seal



OMB Series system: Flanges

A B C D E F Body-trim
CR-F6-833-I-RF-DP F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

I=Integral seat

DP= drip plate

F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat

Flanges / Butt Welds

none	Standard
F	Integral Flanged
BW	Integral Butt Weld (long)
W	Welded Flanged
CL	Clamp ends

Flange / BW class

1	150
3	300
6	600
9	900
9	1500
2	2500

If the valve is not flanged or Butt weld this section is not required



OMB Series system: Body

A B C D E F Body-trim
 _ _ - **MLA814** - _ _ - _ **A105N-F6HFS**

" " = standard

" " = not flanged

A105N = body in ASTM A105N

F6HFS = trim 13% chrome

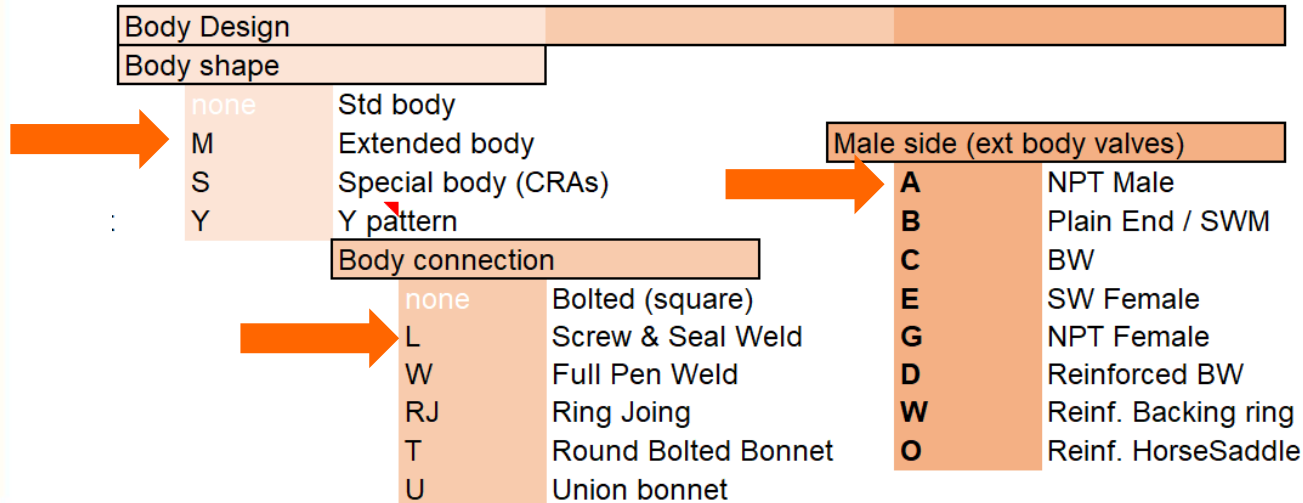
MLA814 = Extended body, Welded Bonnet

Hard Faced Seat

NPT Male end x FNPT, 800 class body, Gate, RB, 3/4"

" " = no special trim

" " = no options



OMB Series system: Body

A B C D E F Body-trim
 _ _ - **MLA814** - _ _ - **A105N-F6HFS**

" " = standard

" " = not flanged

MLA814 = Extended body, Welded Bonnet

800 class body, Gate, RB, 3/4"

" " = no special trim

" " = no options

A105N = body in ASTM A105N

F6HFS = trim 13% chrome
 Hard Faced Seat

Body type and bore

8	800 Red Bore
6	800 Full Bore
R9	1500 Red Bore
9	1500 Full Bore
25	2500 Full Bore
45	4500 Full Bore

Valve Type

0	Gate, IS&Y
1	Gate, OS&Y
2	Globe, IS&Y
3	Globe, OS&Y
4	Check, Piston
5	Check Ball
6	Check Swing



OMB Series system: Size

A B C D E F Body-trim
 _ _ - **MLA814** - _ _ - **A105N-F6HFS**

" " = standard

" " = not flanged

MLA814 = Extended body, Welded Bonnet
 800 class body, Gate, RB, 3/4"

" " = no special trim

" " = no options

A105N = body in ASTM A105N

F6HFS = trim 13% chrome
 Hard Faced Seat

Diameter

1	1/4"
2	3/8"
3	1/2"
4	3/4"
5	1"
6	1.1/4"
7	1.1/2"
8	2"
9	2.1/2"
A	3"
B	4"
0	Generic



OMB Series system: Size (US market)

A B C D E F Body-trim
3/4" - - **MLA810** - - - **A105N-F6HFS**

" " = standard

" " = not flanged

MLA814 = Extended body, Welded Bonnet
800 class body, Gate, RB,

" " = no special trim

" " = no options

A105N = body in ASTM A105N

F6HFS = trim 13% chrome
Hard Faced Seat

Diameter

1	1/4"
2	3/8"
3	1/2"
4	3/4"
5	1"
6	1.1/4"
7	1.1/2"
8	2"
9	2.1/2"
A	3"
B	4"
0	Generic



On the **US and Canadian** market
the size is indicated at the beginning
of the series

This system is used by **OMB valves inc.** only



OMB Series system: Trim Options

A B C D E F Body-trim
CR-F6-833-IN-RF-DP F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

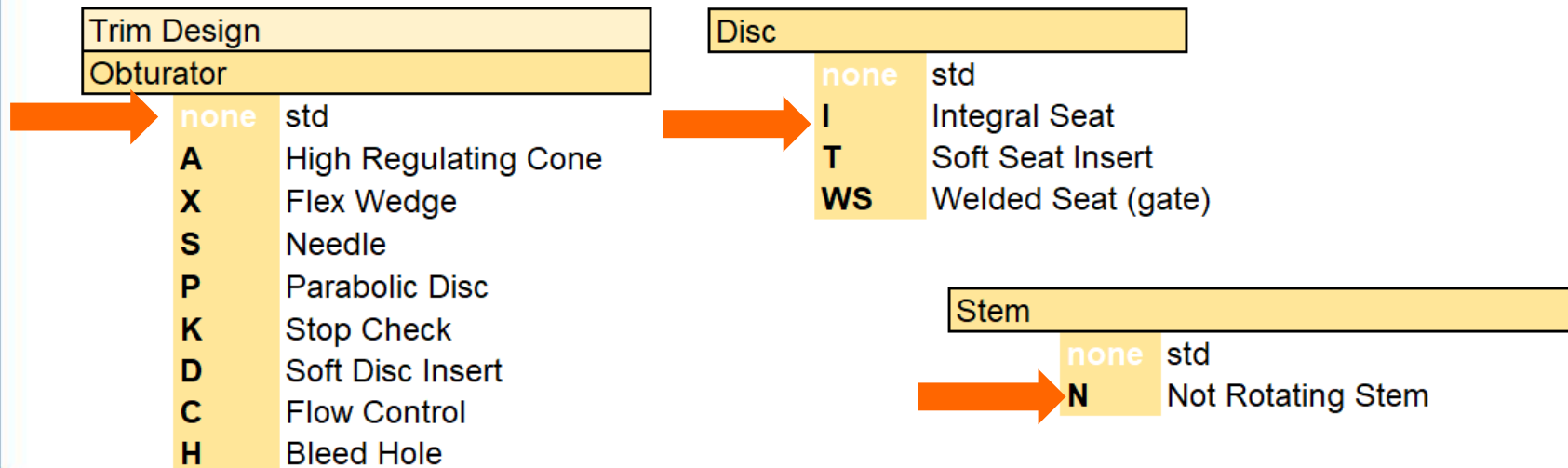
F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat

I=Integral seat N= Not rotating Stem

DP= drip plate



OMB Series system: Ends

A B C D E F Body-trim
CR-F6-833-I-RF-DP F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

I=Integral seat

DP= drip plate

F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat

Ends

NPT		Threaded Ends
SW		Socket Weld
SN	SWxNPT	SW x NPT
NS	NPTxSW	NPT x SW
S1	SH10	Schedule 10
S4	SH40	Schedule 40
S8	SH80	Schedule 80
S6	SH160	Schedule 160
Sx	SHXXS	Schedule XXS
FF		Flat Finish - Smooth Finish 3.2-6.3
RF		Raised Face - Smooth Finish 3.2-6.3 - Spiral
RJ		Ring Joint



FS	FFST	Flat Finish - Stock Finish 6.3-12.5
RS	RFST	Raised Face - Stock Finish 6.3-12.5 Spiral
RN	RFSN	Raised Face - Stock Finish Spec 1.6:3.2 Spiral
RC	RFC	Raised Face - Smooth Finish 3.2-6.3 - Concentric
RT	RFCST	Raised Face - Stock Finish 6.3-12.5 Concentric
SG		Small Groove
LG		Large Groove
LF		Large Female
LM		RJ-Large Male
HB		Hub Ends



OMB Series system: Special Design

A B C D E F Body-trim
CR-F6-833-I-RF-**DP** F316-316HFS

CR=Cryogenic

F6=flanged #600

833= 800 class body, Globe, RB, 1/2"

I=Integral seat

DP= drip plate

F316= body in ASTM A182 F316

316HFS= trim 316

Hard Faced Seat

Special Design

LL	Live Loading
BA	Lantern Ring with greaser
CS	Chlorine Service
AS	Alkylation Service
VS	Vaccum Service
GE	Gear
BS	Bare Stem
AC	Actuator Flange
LS	Limit Swith
DP	Drip Plate
PI	Position indicator
...	Other



OMB Series system: Body

Body

Carbon	
A105N	ASTM A105N
LF2	ASTM A350 LF2
LF6 Cl.2	ASTM A350 LF6 Cl 2
Stainless	
F304	ASTM A182 F304
F316	ASTM A182 F316/F316L dual certified
F321	ASTM A182 F321/F321H dual Certified
F347	ASTM A182 F347/F347H dual certified
Low Alloy	
F5	ASTM A182 F5
F9	ASTM A182 F9
F11 Cl.2	ASTM A182 F11 Cl 2
F22 Cl.3	ASTM A182 F22 Cl 3
F91	ASTM A182 F91

Duplex	
F51	ASTM A182 F51 (Norsok)
F53	ASTM A182 F53 (Norsok)
F55	ASTM A182 F55 (Norsok)
CRAs	
ALLOY 20	ASTM B462 UNS N08020
A825	ASTM B564 UNS N08825
A600	ASTM B564 UNS N06600
A625	ASTM B564 UNS N06625
Al800	ASTM B564 UNS N08800
HAST C276	ASTM B564 UNS N10276
Monels	
MONEL	ASTM B564 UNS N04400
MONEL K500	UNS N05500
Titanium	
TITANIUM Gr.2	ASTM B381 TITANIUM F2
TITANIUM Gr.5	ASTM B381 TITANIUM F5



OMB Series system: Trim

Trim

API Trim No	Nominal	OMB descr.	Stem	Disc/Wedge	Seat
1	F6	F6	F6	F6	410
2	304	304	F304	F304	304
5	Hardfaced	F6HF	F6	F6 + St Gr6	410 + St Gr6
8	F6 and Hardfaced	F6HFS	F6	F6	410 + St Gr6
9	Monel	Monel	Monel 400	Monel	Monel
10	316	316	F316	F316	316
11	Monel and Hardfaced	MonelHFS	Monel 400	Monel	Monel
12	316 and Hardfaced	316HFS	F316	F316	316 + St. Gr6
13	Alloy 20	A20	Alloy 20	Alloy 20	Alloy 20
14	Alloy 20 and Hardfaced	A20HFS	Alloy 20	Alloy 20	Alloy 20
15	Hardfaced (304)	304HF	F304	F304 + St Gr6	304 + St Gr6
16	Hardfaced (316)	316HF	F316	F316 + St Gr6	316 + St Gr6
17	Hardfaced (347)	347HF	F347	F347 + St Gr6	347 + St Gr6
18	Hardfaced (Alloy 20)	A20HF	Alloy 20	Alloy 20 + St Gr6	Alloy 20 + St Gr6
n/a	Alloy 625	A625	Alloy 625	Alloy 625	Alloy 625

In case of other materials combinations the grade is specified in this order:

- 1-stem
- 2-obturator
- 3-seat

17-4PH/F51/F51HF

Stem= 17-4PH, Wedge=F51, Seat=F51 Hard Faced





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