

How To Order and Seat Features & Applications

Specifying Threaded and Socketweld Ball Valve Figure Numbers

Example: 6" S-6331-38-3600-ML-NL ■ This number represents an all Stainless Steel (316), Full Port, Threaded Type Valve, Series 31, Fire Tested, Threaded End Connections, 316 SS Body Material and Trim, 20% C with 5% Graphite filled TFE Seats, Graphite Seals, for use in NACE Applications and Lever Operated.

S — **6** **3** **31** — **3** **8** — **36** **00** — **M** **L** — **N** **L**

Material Code	Port Config.	Valve Type	Pressure Class	Fire Tested	End Connection	Body Material	Trim Material	Seat Material	Seal Material	NACE Option	Options
C Carbon Steel	5 Reduced	3 Threaded and SW Type	31 Super Star	0 Non-Fire Tested, w/No	5 BWE	22 A105 WCB	00 Same as Body	B Bronze Filled TFE	L Graphite	N NACE	A Actuated
S Stainless Steel	6 Full		33 Master Star	7 Emergency Grease Seals	7 Thrd x SW	25 LF2	36 316SS	D Devlon®	V Viton®	S Standard	B Bare Stem
N Nickel Alloys			36 Mega Star	3 Fire Tested w/No	8 Threaded	34 304SS	70 Monel®	G Glass Filled TFE	R Low Temp. Buna N		E Tee Handle
			38 3-Way Multi-Port	9 Emergency Grease Seals	9 SW	36 316SS	F9 Duplex	K Teflon®	T Special		I Insulation
			39 4-Way Multi-Port		6 NPL	F9 Duplex	FS1 Duplex	M 20% C 5% Graphite Filled TFE	Z Special		L ISO Mounting Pad
						F51 Duplex		P PEEK™			V Lever
						70 Monel®		R Delrin®			O Oval Handle
								T Virgin TFE			
								U UHMWPE			
								Z Special			

Seat Features and Applications

Seat Material Code	Seat Material Description	Temperature Range		Characteristics	Notes and Applications	Valve Model
		°C	°F			
B	Reinforced PTFE Bronze Filled PTFE	-100/+270	-148/+518	medium pressure low/high temp	Perfect for steam applications	Master Star Super Star 3 and 4-way
R	Delrin® Acetal Resin	-70/+95	-94/+203	high pressure no temp	Hydrocarbons-NACE-CO ₂ applications NOT RECOMMENDED FOR OXYGEN	Superstar Mega Star
E	Vespel Polyimide	-200/+260	-328/+500	high pressure high temp	Good chemical resistance NOT RECOMMENDED FOR STEAM	Super Star Mega Star
K	Kel-F® PCTFE	-196/+150	-319/+302	high pressure low temp	Similar to PTFE but with improved resistance to nitric acid, hydrofluoric acid, and liquid oxygen	Super Star Mega Star
D	Nylon Devlon® V Polyimide-Nylon	-65/+150	-50/+302	high pressure medium/low temp	Hydrocarbons and NACE applications. NOT RECOMMENDED FOR GLYCOL AND METHANOL AS WELL AS WATER APPLICATIONS	Super Star Mega Star
P	PEEK™ Polyetherketone	-80/+220	-42/+428	high pressure high temp	Hydrocarbons-NACE Particularly indicated for tobacco and nuclear environment	Super Star Mega Star
G	Reinforced PTFE	-60/+220	-51/+428	low pressure high cycle life	Higher pressure than virgin PTFE	Master Star Super Star 3 and 4-way
M	Reinforced PTFE 20% Carbon 5% Graphite	-190/+250	-310/+482	medium pressure low/high temp	Higher pressure and temperature than virgin PTFE	Master Star Super Star 3 and 4-way
T	Virgin PTFE	-196/+200	-319/+392	low pressure low torque	Mainly chemical-all services subject to temperature restrictions	Master Star Super Star 3 and 4-way
U	UHMWPE Polyethylene	-10/+80	-14/+176	low pressure low torque	Food and tobacco industries Nuclear environment	Master Star Super Star 3 and 4-way