

How to order:

Sample	8	G	P	9	B	05	A	-	B
Code	I	II	III	IV	V	VI	VII		VIII

I	Valve NPS.	Design Standard
NPS	Nominal Pipe Size	API/ANSI
DN	Nominal Diameter	BS,EN,DIN

II	Valve Type
G	Gate Valve
B	Ball Valve
C	Check Valve
GL	Globe Valve
P	Plug Valve
S	Strainer

III	Special Code ¹⁾	Suitable Valve
R	Reduced Port	
C	Cryogenic	
P	Pressure Seal	G/C/GL Valve
N	Non-Rising Stem	G/GL Valve
B	Bellows Type	
A	Adjustment-type Disc	Globe valve
M	Trunnion Mounted	
T	Top Entry	Ball Valve
W	All-Welded	
V	Vertical	
H	Horizontal	LIR Type
D	Dual-plate, Butterfly Type	Check Valve
S	Single-plate	
Y	Y-type	Strainer

NOTE: 1) More codes can be used simultaneously.

IV	ANSI, Pound Class	PN, Nominal Pressure
0		PN 1.6MPa
1	ANSI Class 150Lb	PN 2.0MPa
2		PN 2.5MPa
3	ANSI Class 300Lb	PN 5.0MPa
4		PN 4.0MPa
5	ANSI Class 400Lb	PN 6.3MPa
6	ANSI Class 600Lb	PN 10.0MPa
8	ANSI Class 800Lb	
9	ANSI Class 900Lb	PN 15.0MPa
15	ANSI Class 1500Lb	PN 25.0MPa
25	ANSI Class 2500Lb	PN 42.0MPa

YFL
Industrial Supply Corporation



V	Type of Connection	Stand. Code
F	Raised Face Flange End	RF
L	Flat Face Flange End	FF
R	Ring Joint Flange End	RTJ
B	Butt Welding End	BW
S	Socket Welding End	SW
T	Screwed End, Internal Thread, NPT	SC
W	Wafer Type	WF

VI	Trim Material				
CODE	API CN	Surface Closure Member		Brinell Hardness	Stem Material
		Seat	Seat		
01	1	13Cr	13Cr	250 HB min.	13Cr
02	2	18Cr-8Ni	18Cr-8Ni	Not Specified	18Cr-8Ni
03	3	20Cr-20Ni	20Cr-20Ni	Not Specified	20Cr-20Ni
04	4	13Cr	13Cr	750 HB min.	13Cr
05	5	HF	HF	350 HB min.	13Cr
06	6	13Cr	CuNi	250 HB/175 HB min.	13Cr
07	7	13Cr	13Cr	250 HB/750 HB min.	13Cr
08	8	13Cr	HF	250 HB/350 HB min.	13Cr
09	9	NiCu alloy	NiCu alloy	Not Specified	NiCu alloy
10	10	18Cr-8Ni-Mo	18Cr-8Ni-Mo	Not Specified	18Cr-8Ni-Mo
11	11	NiCu alloy	HF	350 HB min.	NiCu alloy
12	12	18Cr-8Ni-Mo	HF	350 HB min.	18Cr-8Ni-Mo
13	13	19Cr-29Ni	19Cr-29Ni	Not Specified	19Cr-29Ni
14	14	19Cr-29Ni	HF	350 HB min.	19Cr-29Ni
50	/	A105+ENP ²⁾	Soft Seat ³⁾	Not Specified	13Cr
55	/	13Cr	Soft Seat ³⁾	Not Specified	13Cr
56	/	18Cr-8Ni	Soft Seat ³⁾	Not Specified	13Cr
57	/	18Cr-8Ni	Soft Seat ³⁾	Not Specified	18Cr-8Ni
58	/	18Cr-8Ni-Mo	Soft Seat ³⁾	Not Specified	13Cr
59	/	18Cr-8Ni-Mo	Soft Seat ³⁾	Not Specified	18Cr-8Ni-Mo
00 ³⁾	/	/	/	/	/

NOTES:

- 1) Soft seat including PTFE, NYLON and PEEK, see part list for details.
- 2) ENP=Electroless Nickel Plating.
- 3) Applicable to Strainer.

a. Cr=Chromium; Ni=Nickel; Co=Cobalt; Mo=Molybdenum.

b. HF=Hard Facing using CoCr welding alloy.

c. Other materials can be used upon discussion between buyer and manufacturer.

VII		SHELL MATERIAL						
CODE	ASTM Spec. Grade	Nominal Designation	Service Recommendations	Min. TEMP		Min. TEMP		
				°F	°C	°F	°C	
A	A216-WCB	Cast Carbon Steel	W.O.G(Water, Oil & Gas) Steam and General Service	-20	-29	800	425	
B	A352-LCB	Cast Carbon Steel	Low Temperature and General Service	-50	-46	650	343	
C	A352-LCC	Cast Carbon Steel	Low Temperature and General Service	-50	-46	650	343	
D	A217-WC6	Chrome-Molybdenum Steel 1 1/4Cr-1/2Mo	High Temperature, Steam Oil vapour and General Service	-20	-29	1100	593	
E	A217-WC9	Chrome-Molybdenum Steel 2 1/4Cr-1Mo	High Temperature, Steam Oil vapour and General Service	-20	-29	1100	593	
F	A217-C5	Chrome-Molybdenum Steel 5Cr-1/2Mo	Corrosive Erosive Oil Refinery Service	-20	-29	1200	649	
G	A217-C12	Chrome-Molybdenum Steel 9Cr-1Mo	Corrosive Erosive Oil Refinery Service	-20	-29	1200	649	
K	A351-CF8	Cast Stainless Steel 18Cr-10Ni, 304 SS	Corrosive of extremely high temperature non- corrosive services between -450°F (-268°F) and 1200°F (649°F). Above 100°F (540°F) specify carbon content of 0.04% or greater.	-20	-29	1100	593	
L	A351-CF8M	Cast Stainless Steel 18Cr-10Ni-2Mo, 316 SS		-20	-29	1100	593	
M	A351-CF3	Cast Low Carbon Stainless Steel 18Cr-10Ni, 304L SS		-20	-29	800	425	
N	A351-CF3M	Cast Low Carbon Stainless Steel 18Cr-10Ni-2Mo, 316L SS		-20	-29	850	454	
P	A351-CN7M	Cast Stainless Steel 19Cr-29Ni, Alloy-20	Corrosion Resistance	-20	-29	800	425	
R	A494 M-35-1	Cast Ni Alloy Steel Monel	Weldable grade, Good resistance to corrosion by all common organic acids and salt water.	-20	-29	750	400	
U	A494 CW-6M	Cast Ni Alloy Steel Hastelloy C	Good resistance to strong oxidation conditions. Good properties at high temperatures, high resistance to formic, phosphoric, sulphurous and sulfuric acids.	-20	-29	1200	649	
V	A494 CY-40	Cast Ni Alloy Steel Inconel	Very good for high temperature service. Good resistance to strongly corrosive media.	-20	-29	1200	649	
FA	A105(N)	Forged Carbon steel	W.O.G(Water, Oil & Gas) Steam and General Service	-40	-40	800	425	
FB	A350-LF2	Forged Carbon steel	W.O.G(Water, Oil & Gas) and General Service	-50	-46	650	343	
FD	A182-F11	Chrome-Molybdenum Steel 1 1/4Cr-1/2Mo-Si	High Temperature, Steam Oil vapour and General Service	-40	-40	1100	593	
FK	A182-F304	Forged Stainless steel 18Cr-10Ni, 304 SS	Corrosive or extremely high temperature non- corrosive services between -450°F (-268°C) and 1200°F (649°C). Above 1000°F (540°C) specify carbon content of 0.04% or greater.	-20	-29	1100	593	
FL	A182-F316	Forged Stainless Steel 18Cr-10Ni-2Mo, 316 SS		-20	-29	1100	593	
FM	A182-F304L	Forged Low Carbon Stainless Steel 18Cr-10Ni, 304L SS		-20	-29	800	425	
FN	A182-F316L	Forged Low Carbon Stainless Steel 18Cr-10Ni-2Mo, 316L SS		-20	-29	850	454	
NOTE: The soft seal valve maximum working temperature depending upon the seat material.			Seat Material	R,PTFE	-320	-196	250	121
				NYLON	-58	-50	176	80
				PEEK	-185	-120	483	250

VIII	Actuator Device
B	Bevel Gear Actuator
W	Worm Gear Actuator
E	General Electric Actuator
EX	Explosion-Proof Electric Actuator
P	Double Pneumatic Actuator
PS	Single Pneumatic Actuator
H	Hydraulic Actuator
EH	Electro-Hydraulic Actuator
PH	Pneumatic-Hydraulic Actuator

NOTES: a.N/A for Handwheel or Lever operated.
b.N/A for Check valve and Strainer.

