



API VALVE TRIM NUMBER CHART

Important Note:

Data provided in this chart is for informational purposes only. Always consult current API publications to verify information and trim data.

API Trim Number	Material	Trim Code	Seat / Disc		Backseat	Stem	Notes
1	410	F6	410	410	410	410	For oil and oil vapors and general services with heat treated seats and wedges/discs. General very low erosive or non-corrosive service.
2	304	304	304	304	304	304	For moderate pressure in corrosive, low erosive service.
3	F310	310	310	310	310	310	For moderate pressure in corrosive, low erosive service.
4	Hard 410	F6H	Hard 410	Hard 410	410	410	Same as trim 1 but seats and disc / wedge are 275 BHN min for medium pressure and more corrosive service
5	Hardfaced	F6HF	Stellite	Stellite	410	410	High pressure slightly erosive and corrosive service, premium trim service excellent for high pressure water and steam service
5a	Hardfaced	F6HF	Ni-Cr	Ni-Cr	410	410	Same as trim 5 where Co is not allowed
6	410 and Cu-Ni	F6HFS	Cu-Ni	Cu-Ni	410	410	Same as trim 1 for more corrosive service
7	410 and Hard 410	F6HF+	Hard 410	Hard 410	410	410	Same as trim 1 but seats and wedge / disc are 750 BHN min for higher pressure and more corrosive/erosive service
8	410 and Hardfaced	F6HFS	Stellite	410	410	410	Universal trim for general service requiring long service life, for moderate pressure and more corrosive service. Steam, gas and general service "standard" trim. (Trim 5 is an upgrade)
8a	410 and Hardfaced	F6HFS	Ni-Cr	410	410	410	Similar to trim 8 for moderate pressure and more corrosive service (Trim 5a is an upgrade)
9	Monel	Monel	Monel	Monel	Monel	Monel	For Corrosive service such as acids, alkalies, salt solutions, etc. for Very Corrosive fluids. Erosive-corrosive service resistant to sea water, and has excellent corrosion resisting in chlorine and alkylation services (Trim 11 is an upgrade)
10	316	316	316	316	316	316	For superior resistance to corrosion of media in liquid and gas states which are corrosive to 410 SS. Similar to trim 2 but a higher level of corrosive service. Provides excellent resistance to corrosive media at high temperatures and toughness for service at low temps. (Trim 12 is and upgrade)
11	Monel and Hardfaced	MonelHFS	Stellite	Monel	Monel	Monel	Hard seat trim 9 for medium pressure and more corrosive service
12	316 and Hardfaced	316HFS	Stellite	316	316	316	Hard seat trim 10 for medium pressure and more corrosive service. (Trim 16 is an upgrade)
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20	Alloy 20	Alloy 20	For very corrosive services (Trim 13 is an upgrade)
14	Alloy 20 and Hardfaced	Alloy 20HFS	Stellite	Alloy 20	Alloy 20	Alloy 20	Hard seat trim 13 for moderate pressure and very corrosive service
15	304 and Hardfaced	304HS	Stellite	Stellite	304	304	Hard seat and wedge / disc trim 2 for more erosive service and higher pressures
16	316 and Hardfaced	316HFS	Stellite	Stellite	316	316	Hard seat and wedge / disc trim 10 for more erosive service and higher pressures
17	347 and Hardfaced	347HF	Stellite	Stellite	347	347	This trim is for higher pressures and temperatures than those in trim 13 with good corrosion resistance.
18	Alloy 20 and Hardfaced	Alloy 20 HF	Stellite	Stellite	Alloy 20	Alloy 20	This trim is for more corrosive and higher pressures than trim 13 but not as high as trim 17