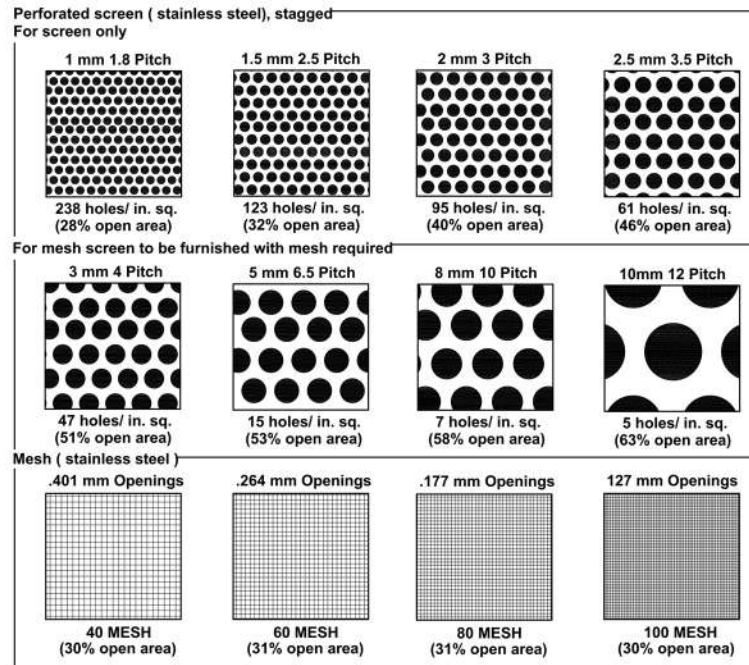




INTERNATIONAL COMPARISON FOR MATERIAL STANDARDS PERFORATED METALS AND WIRE MESH

TECHNICAL DATA

ASTM STANDARD	DIN STANDARD	EN STANDARD	JIN STANDARD	BS STANDARD
A126 CL.B	GG-25	GJL-250	FC 250	GRADE 260
A536	GGG 40.3	GJS-400-18	FCD 450	370/17
A216 WCB	GS-C25N	GP240GH+N	SCPH 2	1504-161 GR.B
A217 WC6	GS-17 CrMo55	G17CrMo5-5	SCPH 21	B2
A105	C 22.8	C 22.8	SF 490A	050A20
A351 CF-8	G-X 6CrNi189 (1.4308)	-	SCS 13	304 C 15
A351 CF-8M	GX 6CrNiMo1810 (1.4408)	GX5CrNiMo 19-11-12	SCS 14	316 C 16



COMPABILITY CHART FOR PIPE, VALVES AND FITTINGS

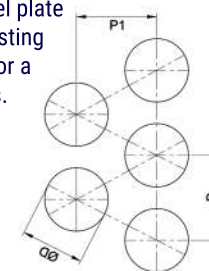
Pipe	Butt Weld Fittings	Screwed & Socket Fittings	Flanges	Valves
A106B	A234 WPB	A105 GR.N	A105 GR.N	A105 A216 WCB
A312T304	A403 WP304	A182 F-304	A182 F-304	A182 F-304 CF8
A312T 316	A403 WP316	A182 F-316	A182 F-316	A182 F-316 CF8M
A333 GR.6	A430 WPL6	A350 LF-2	A350 LF-2	A350 LF-2 A352 LCB
A333 GR.3	A420 WPL3	A350 LF-3	A350 LF-3	A350 LF-3 A352 LC3

Standard material for screen is 304 stainless steel plate perforated in 60 degree staged arrangement, resisting corrosion and high temperature and being ideal for a wide of filtering and screening in industrial plants.

$$R = \frac{\sqrt{3} \times \pi}{6} \times \left(\frac{D}{P}\right)^2 \times 100 = \frac{91 \times D^2}{P^2} (\%)$$

R : Open Area Ratio (%)
P1 : Pitch (Depth)

P : Pitch
D : Diameter of hole



DIMENSIONS OF PERFORATED SCREEN (mm)

Applicable Size (mm)	Screen Only				Screen With Mesh Inside			
	ØD	P	P1	R (%)	ØD	P	P1	R (%)
15 ~ 50	1.0	1.8	1.5	28	3	4	3.5	51
65 ~ 100	1.5	2.5	2.2	32	5	6.5	5.6	53
125 ~ 200	2.0	3.0	2.6	40	8	10	8.6	58
250 ~ 350	2.5	3.5	3.0	46	10	12	10	63

FORMULA FOR THE Cv CALCULATION OF VALVE SIZE

Liquid Formula

$$Cv = 1.17V \sqrt{\frac{G}{P1 - P2}}$$

V : Maximum Flow, m³/hr
G : Specific gravity (water = 1)
P1 : Inlet Pressure, kg/cm²
P2 : Inlet Pressure, kg/cm²

Steam Formula

$$\Delta P < \frac{P1}{P2}$$

W : Maximum Flow, kg/hr
ΔP : P1 - P2 (kg/cm²)

$$\Delta P \geq \frac{P1}{P2}$$

P1 : Inlet Pressure, kg/cm² abs
P2 : Inlet Pressure, kg/cm² abs

$$Cv = \frac{WK}{13.67 \sqrt{\Delta P (P1 + P2)}}$$

$$Cv = \frac{WK}{11.9 P1}$$