

MAX GPM			
*PIPE SIZE	5 FPS	8 FPS	10 FPS
1/2"	4.5	6	8
3/4"	8	13	18
1"	16	20	29
1-1/4"	22	30	43
1-1/2"	28	40	55
2"	48	70	95
2-1/2"	73	105	150
3"	110	160	205

MAX SFU			
*PIPE SIZE	5 FPS	8 FPS	10 FPS
1/2"	1.0	3	4
3/4"	4	9	16
1"	12	23	47
1-1/4"	27	55	95
1-1/2"	47	85	144
2"	120	225	350
2-1/2"	230	400	600
3"	525	680	980

906.1 FIXTURE VENTS		
SIZE OF TRAP	SLOPE /FOOT	DISTANCE FROM TRAP
1-1/4"	1/4"	5
1-1/2"	1/4"	6
2"	1/4"	8
3"	1/8"	12
4"	1/8"	16

RPBP Relief Valves	
Size of RPBP	Required Floor drain size
2"	55 GPM
3"	112 GPM
4"	170 GPM
5"	350 GPM
6"	450 GPM

Denver Sand Oil Intercept Sizing	
(1) Cubic Foot of interceptor Capacity:	
100 sf of floor space:	Machine shops/ auto repair
250 sf of floor space	paint spray booths
2000 sf of floor space	car garage w/ washed floors
3000 sf of floor space	parking garage where tenants cars are washed
4000 sf of floor space	parking garage with no water outlets
Use Copeland 100 Gal/200 Gal concrete blocks for use.	

Grease Interceptor sizing	
Capacity = [2.5] x [2.0] x [CUF] x [Seating Count]	
Gallons per customer = 2	
Turn over rate = 2.5	
Seating Capacity = architects seating count, NOT OCCUPANCY COUNT.	
Cubic Usage factor= counting fixtures ONLY IN KITCHEN, connected ONLY TO GREASE.	
Starting CUF = 2.25	
Additional Fixtures have a factor of 0.25 CUF	
Appliances have a factor of 0.5 CUF: stove(s)/griddle(s),3 comp or 2 comp sink,oven(s),Pot Sink,broiler(s),Mop Sink, fryer(s),Floor Sink,wok(s),Hand Sink, Garbage Disposal,Dishwasher	

- Must include sanitary Tee's from Denver standards. Copeland sheet does not include.
- Combine vents in building at 42" AFF and route thru roof
- If total vent length >40', increase vent size from 2" to 3"
- Coordinate location w/ civil engineer. They will need capacity, location, and vent routing.
- Include Denver standard and GI dimensions on drawing in interceptor detail.
- **Core & Shell Retail - 1000 Gal / restaurant tenant space**

IPC Fixture Values - Private			
FIXTURE	COLD	HOT	TOTAL
BRG	2.7	1.5	3.6
Bathtub	1.0	1.0	1.4
Dish Machine	--	1.4	1.4
Kitchen Sink	1.0	1.0	1.4
Lavatory	0.5	0.5	0.7
Shower Head	1.0	1.0	1.4
8lb washing machine	1.0	1.0	1.4
WC -tank	2.2	--	2.2
WC - Flushmeter	2.0	--	2.0

AWWA (2nd ed) Fixture Values (gpm)	
Toilet (Flush) - 4	Urinal (wall) - 16
Toilet (Flush Valve) - 35	Shower - 2.5
Shower - 2.5	Lavatory - 1.5
Kitchen Sink - 2.2	Utility Sink - 4
Dish Washer - 2	CWSW - 6
1/2" hosebib - 5	5/8" hosebib - 9
Pressure adjustments:	
50 PSI - 0.9	
60 PSI - 1.0	
70 PSI - 1.09	
80 PSI - 1.17	
90 PSI - 1.25	

