

# Capacities | Wafer Valves

## WAFER VALVE CAPACITIES

scfh at 1" w.c. pressure drop (70°F air) and 0.25 PSIG, upstream pressure

Pipe size	1146, 1156		1136A	
	wide open	70° open	wide open	70° open
-6 (3")	18 500	9 650	9 500	4 940
-7 (4")	27 200	14 300	18 500	9 650
-8 (6")	60 000	35 000	27 200	14 300
-9 (8")	125 000	56 000	60 000	35 000
-10 (10")	202 000	88 500	125 000	56 000
-12 (12")	303 000	137 000	202 000	88 500
-14 (14")	400 000	195 000	303 000	137 000
-16 (16")	530 000	254 000	-	-
-18 (18")	670 000	320 000	-	-
-20 (20")	845 000	404 000	-	-
-22 (22")	1 040 000	498 000	-	-
-24 (24")	1 260 000	600 000	-	-
-30 (30")	1 720 000	825 000	-	-

## WAFER VALVE LEAK RATES

All leak rates evaluated with valve in closed position, and 0.25 PSIG pressure upstream. 1136A/55/56 leak rates are evaluated at 70°F, those for 1145/1146 are at 250°F, while those for 1145/1146-H are at 700°F.

Pipe Size	1136A	1155/1156	1145/1146	1145/1146-H
-6 (3")	165	341	369	376
-7 (4")	213	373	600	578
-8 (6")	694	672	1300	1259
-9 (8")	791	943	2268	2202
-10 (10")	996	1159	3460	3364
-12 (12")	1224	1410	5087	4940
-14 (14")	1410	1929	7005	6855
-16 (16")	—	2494	9000	8735
-18 (18")	—	3337	10961	10688
-20 (20")	—	3349	13722	13451
-22 (22")	—	5276	16913	16431
-24 (24")	—	5784	20302	19709
-30 (30")	—	7245	30210	29339

## SPECIFICATIONS / CONSTRUCTION

Valve designation	Maximum inlet pressure, psi	Maximum temperature, F	Minimum ambient temperature, F	Body	Disc	Shaft
1155/1156 1136A	25	250	-20	heat-resistant cast iron	heat-resistant cast iron	stainless steel
1145/1146	25	700	-20	"	"	"
1145/1146-H <sup>①</sup>	25	1200	-20	"	"	"

<sup>①</sup> For 1146-H Valves, consider specifying "1232 B & L" (for additional charge) with standoff bracket to help protect control motor from heat.

**WARNING:** Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.