

Table 1. Water Capacities.

Pressure Regulator Valve Size	Reduced Pressure Falloff (psi)	Pressure Differential Between Inlet and Outlet							
		25 psi		50 psi		75 psi		100 psi or more	
		Flow Capacity (US gpm)	Velocity (ft/sec) ^a	Flow Capacity (US gpm)	Velocity (ft/sec) ^a	Flow Capacity (US gpm)	Velocity (ft/sec) ^a	Flow Capacity (US gpm)	Velocity (ft/sec) ^a
1/2 inch	6	7.0	7.3	8.0	8.3	9.0	9.4	10.0	10.4
	10	10.0	10.4	11.0	11.5	12.0	12.5	13.0	13.5
	15	13.0	13.5	15.0	15.6	16.0	16.7	17.0	17.7
	20	15.5	16.0	18.0	19.5	19.0	21.0	20.0	22.0
3/4 inch	6	9.0	5.4	10.0	6.0	11.0	6.5	12.0	7.1
	10	15.0	8.9	16.0	9.5	17.0	10.0	18.0	10.7
	15	20.0	11.9	22.0	13.7	23.0	13.7	24.0	14.3
	20	23.0	13.9	26.0	17.6	27.0	16.7	28.0	17.3
1 inch	6	11.5	4.2	13.0	4.7	14.5	5.3	16.0	5.8
	10	20.0	7.2	21.5	7.8	23.0	8.3	24.5	8.9
	15	28.0	10.7	30.0	10.9	33.0	12.0	35.0	12.7
	20	32.0	14.0	37.0	13.5	40.0	15.5	41.0	15.0
1-1/4 inch	6	13.5	2.9	16.0	3.4	20.0	4.3	22.0	4.7
	10	22.0	4.7	29.0	6.2	34.0	7.3	38.0	8.1
	15	37.0	7.9	56.0	12.0	62.5	13.4	73.0	15.6
	20	55.0	11.8	78.0	16.7	87.0	18.6	101.0	21.6

^a Velocity in feet per second is based on schedule 40 pipe size. Recommended pressure falloff for general use is approximately 104 kPa (15 psi). Recommended velocities for the flow of water: Residential and general use, 5 to 10 ft/sec; industrial use, 7 to 15 ft/sec; boiler feed, 7 to 15 ft/sec.

DS05 Parts and Accessories

Order Number Description

Replacement Parts

272838	Bonnet Kit for 1/2 in. and 3/4 in. DS05.
272839	Bonnet Kit for 1 in. and 1-1/4 in. DS05.
272840	Gasket for 1/2 in. D05/DS05 (quantity 24).
272841	Gasket for 3/4 in. D05/DS05 (quantity 24).
272842	Gasket for 1 in. D05/DS05 (quantity 24).
272843	Gasket for 1-1/4 in. D05/DS05 (quantity 24).
K05A1009	Replacement Cartridge, Screen and O-ring for 1/2 and 3/4 in. Valves.
K05A1017	Replacement Cartridge, Screen and O-ring for 1 and 1-1/4 in. Valves.
K05B1007	Replacement Screen and O-ring for 1/2 and 3/4 in. Valves.
K05B1015	Replacement Screen and O-ring for 1 and 1-1/4 in. Valves.

Union Kits

K06U1069	Union Kit—1/2 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1077	Union Kit—3/4 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1085	Union Kit—1 in., includes Nut, Female NPT Threaded Tailpiece and Gasket.
K06U1135	Union Kit—1-1/4 in. for D05/D505, includes Nut, female NPT Threaded Tailpiece and Gasket.
K06U1093	Union Kit —1/2 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1101	Union Kit—3/4 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1119	Union Kit—1 in., includes Nut, Sweat Tailpiece and Gasket.
K06U1143	Union Kit —1-1/4 in. for D05/D505, includes Nut, Sweat Tailpiece and Gasket.

Accessories

202868	Filter Washer, 3/4 in., for use with U06P1045 Plastic Stand-in Pipe.
202869	Filter Washer, 1 in., for use with U06P1052 Plastic Stand-in Pipe.
U06P1045	Plastic Stand-in Pipe (spacer) for use with DS05 Double Union Pressure Regulating Valves, 3/4 in.
U06P1052	Plastic Stand-in Pipe (spacer) for use with DS05 Double Union Pressure Regulating Valves, 1 in.