SELECTING PRESSURE PILOTS

Any of the Main Valves described in the Main Valve Section can be combined with any of the Pilots listed below to produce the SPENCE Pressure Regulator. This Regulator will reduce and regulate a steady or varying initial pressure, within the range

specified, so as to maintain a constant, adjustable, predetermined delivery pressure. The table below lists the principal Pressure Pilots.

PRESSURE REGULATOR PILOTS

Туре	Service Conditions									Diaphragm		Loading	Main Valve
	Cast	Cast Iron		Cast Bronze		Cast Steel		Delivery Pressure					
	Maximum Initial Pressure psi	Maximum Temper- ature °F	Maximum Initial Pressure psi	Maximum Temper- ature °F	Maximum Initial Pressure psi	Maximum Temper- ature °F	Minimum psi	Maximum psi	Normal Accuracy ±	Diameter inches	Material		
D	250	450	_	_	600	750	3	150	1 psi	31/2	St. Stl.	Spring	E or C Series
D2	250	450	—	_	600	750	100	300	2 psi	31/2	St. Stl.	Spring	E or C Series
D5	250	450	_	_	_	_	1	25	¹∕₂ psi	53/4	St. Stl.	Spring	E or C Series
D120	250	450		_	600	750	5	150	1 psi	4 ¹ / ₂	St. Stl.	Spring	E or C Series
A73	250	450	_	_	600	750			¹∕₂ psi	3 ¹ / ₂ -7 ¹ / _{4^b}	St. Stl.	Air	E or C Series
A53	250	450	_	_	600	750	See response		¹∕₂ psi	3 ¹ / ₂ -5 ³ / _{4^b}	St. Stl.	Air	E or C Series
А	250	450	—	—	600	750			¹∕₂ psi	31/2	St. Stl.	Air	E or C Series
A35	250	450	—	_	—	_			¹∕ଃ psi	5 ³ /4-3 ¹ /2 ^b	St. Stl.	Air	E or C Series
A54	250	450	_	_	600	750	curves on		1 psi	4 ¹ / ₂ -5 ³ / _{4^b}	St. Stl.	Air	E or C Series
A70	250	450	—	—	600	750	A Pilot		2 psi	71/4	St. Stl.	Air	E or C Series
A86	250	450	—	_	600	750			¹∕₂ psi	41/2	St. Stl.	Air	E or C Series
A87	250	450	_	_	600	750	Product Page		¹∕₂ psi	71/4	St. Stl.	Air	E or C Series
A85	250	450	—	—	600	750	50		¹∕₂ psi	3 ¹ / ₂ -5 ³ / _{4^b}	St. Stl.	Air	E or C Series
A84	250	450	—	_	600	750			¹∕₂ psi	31/2	St. Stl.	Air	E or C Series
A83	250	450	_	_	600	750			¹∕₂ psi	31/2	St. Stl.	Air	E or C Series
A82	250	450	_	—	_	—			¹∕₀ psi	53/4	St. Stl.	Air	E or C Series
Safety Pilot	_	_	300	500	600	750	5	175	_	31/2	St. Stl.	Spring	E or C Series
P125	250	450	_	_	600	750	5	175	1 psi	4 ¹ / ₂	St. Stl.	Spring	E or C Series

^bThese Pilots have dual diaphragms, the first size being the control diaphragm and the second, the air loading diaphragm.

NOTES ON SELECTION OF PILOTS

D SERIES PILOTS meet the requirements of the majority of all pressure regulator problems. They are spring-loaded. Other Pilots are modifications of the D Series for specific purposes.

A SERIES PILOTS are air-loaded. These Pilots are recommended where frequent changes in setting must be made and the Regulator is not easily accessible.

In any one Series of Pilots a larger Diaphragm will produce closer accuracy of control but with less range in delivery pressure.

Water Service Pilot operated Regulators are not uniformly satisfactory as water reducing valves unless the delivery system has the ample cushioning afforded by an elevated tank or air chamber. When the flow is intermittent to an inflexible system, the SPENCE Type D34 Direct Operated Pressure Reducing Valve is recommended.

