

MATERIAL SPECIFICATIONS FOR MAIN VALVES & PILOTS

MAIN VALVE & PILOT BODIES

Cast Iron.....	ASTM A126	Class B
Cast Carbon Steel.....	ASTM A216	WCB
Cast Bronze	ASTM B61	C92200

NUTS

Steel Valves	ASTM A194-79	Grade 2H
Cast Iron Valves.....	SAE J995	Grade 2

STEEL PLATE FLANGES & HOODS-FLANGE QUALITY

.....	ASTM A285	Grade C
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STUDS

Steel Valves	ASTM A193-79a	Grade 2H
Cast Iron Valves.....	AISI 12L14	Ledloy

CAP SCREWS

Cast Iron Valves.....	SAE J429	Grade 5
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MATERIAL	COMPONENT PARTS	COMPONENT USAGE		
St. Steel C316	Seat Rings	6"-12" E	ASTM A743-79	Grade CF-8
St. Steel C420	Seat Rings	Up to 5" E	ASTM A743-79	Grade CA-40
St. Steel	Seat Rings	C34, D34	ASTM A276-79a	AISI 303 & 304
St. Steel	Discs	Pilot	ASTM A276-79a	AISI 440C
St. Steel	Discs	6" & Up, includes parabolic	ASTM A276-79a	AISI303 & 304
St. Steel	Discs	Up to 5"	ASTMA582-79	AISI 420F
St. Steel	Stems	All Valves & Pilots	ASTM A276-79a	AISI 303
St. Steel	Stems	750°F E, Bot. GU. VAL.	ASTM A564-79	AISI 630 (17-4)
St. Steel	Diaphragms	All E's & Pilots	ASTM A167	AISI 301

PRESSURE PILOT DIAPHRAGMS

PART NO.	MATERIAL	SIZE	USED ON PILOT TYPE
4-01621-0	Brz.	3½"	W, A88, D2
4-01623-0	St. Stl.	3½"	D, N, Q, A43, A53
4-07890-0	Brz.	3½"	A35, A, A81, SP/P
4-01626-0	St. St.	3½"	P13, N4, F13, N24
4-01627-0	Brz.	4½"	A43, A84, A86, A93
4-01629-1	St. Stl.	4½"	P14, P110, Q43, F14
4-01630-0	Brz.	5¾"	A53, A5, P95, A85
4-01632-0	St. Stl.	5¾"	A92, P15, A54, F15
4-10721-0	Brz.	5¾"	D5, A35
4-03927-0	St. Stl.	5¾"	Q35, A81, A82
4-01633-0	Brz.	7¼"	A73, A70, A75, A87
4-01635-0	St. Stl.	7¼"	A73
4-09685-0	Brz	4½"	D120, A92, D234
4-01659-0	St. Stl.	4½"	A54, F46

TYPE E MAIN VALVE DIAPHRAGMS

VALVE SIZE	PART NO.		DIA.
	ST. STL.	BRZ.	
⅜ & ½	4-01629-1	4-01627-0	4½
¾	4-01662-0	4-01660-0	5⅛
1	4-01632-0	4-01630-0	5¾
1¼	4-01664-0	4-09678-0	6½
1½	4-01635-0	4-01633-0	7¼
2	4-01638-0	4-09679-0	8⅛
2½	4-01641-0	4-09680-0	9
3	5-02038-0	4-09681-0	10
4	5-01647-0	4-09682-0	13
5	5-01649-0	4-09683-0	15
6	5-01651-0	5-09684-0	17½
8	5-01653-0	—	20
10	4-02096-0	—	25
12	5-01656-0	—	30

PRESSURE PILOT SPRINGS

PART NO.	DELIVERY PRESSURE	SPRING COLOR	WIRE DIAMETER	USED ON PILOT TYPE
5-05007-0	1 - 10	Aluminum	3/16"	D5
5-05007-0	3 - 20	Aluminum	3/16"	D, N, N33, Q, N20
5-05003-0	5 - 25	Orange	1/4"	D5
5-05016-0	5 - 25	Uncolored	7/32"	D120
5-05003-0	5 - 50	Orange	1/4"	D, N, N33, Q,
5-05028-0	10-75	Uncolored	5/16"	D120
5-05005-0	10 - 100	Green	5/16"	D, N, N33, Q, N20
5-05012-0	20 -150	Black	11/32"	D, N, N33, Q, N20
5-04990-0	100-300	Uncolored	7/16"	D2, N2, Q2
5-05030-0	40 - 150	Uncolored	3/8"	D120

The number of E Main Valve Diaphragms per set is as follows:

Initial Pressure	# per Set
10 - 250	2
250 - 400	3
400 - 600	4

The Number of Diaphragms per set for Pilots varies with the type and delivery pressure. Consult factory.