

HYDRAULIC CARTRIDGE VALVES

SOLENOID OPERATED DIRECTIONAL CONTROLS

PROPORTIONAL CONTROLS

MOTORIZED CONTROLS

MECHANICAL DIRECTIONAL CONTROLS

MECHANICAL PRESSURE CONTROLS

MECHANICAL FLOW CONTROLS

MAY 2020



 Delta Power Company | **TECNORD**

GLOBAL DISTRIBUTION NETWORK

SOLENOID OPERATED DIRECTIONAL CONTROLS

2W2P NORMALLY CLOSED

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	new UA-S2A	6	4000	23	276	Size 07
	PB-S2A	8	3500	30	241	Size 08
	HB-S2A	12	5000	45	345	Size 08
	DE-S2A	15	3500	57	241	Size 10
	HE-S2A	15	4000	57	276	Size 10
	TT-S2A	25	3000	95	207	Size 12
	SJ-S2A	30	3500	114	241	Size 16
	HJ-S2A	40	4350	151	300	Size 16
	PB-S2B	8	3500	30	241	Size 08
	HB-S2B	12	5000	45	345	Size 08
	DE-S2B	15	3500	57	241	Size 10
	HE-S2B	15	4000	57	276	Size 10
	TT-S2B	25	3000	95	207	Size 12
	HT-S2B	25	5000	95	345	Size 12
	SJ-S2B	30	3500	114	241	Size 16
	new UA-S2F	4	3000	15	207	Size 07
	PB-S2F	6	2500	23	172	Size 08
	DE-S2F	10	1000	38	69	Size 10
	new UA-S2E	0.20	4000	0.76	276	Size 07
	PB-S2I	3	3600	11	250	Size 08
	DE-S2I	3	3000	11	207	Size 10
	HB-S2L	12	5000	45	345	Size 08
	new UA-S2G	1.5	4000	6	276	Size 07
	PB-S2G	8	3000	30	207	Size 08
	DE-S2G	8	3000	30	207	Size 10
	HE-S2G	15	4000	57	276	Size 10

2W2P NORMALLY OPEN

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	PB-S2C	10	3500	38	241	Size 08
	HB-S2C	12	5000	45	345	Size 08
	DE-S2C	15	3500	57	241	Size 10
	TT-S2C	30	3000	114	207	Size 12
	SJ-S2C	40	3000	151	207	Size 16
	HJ-S2C	40	4350	151	300	Size 16
	PB-S2D	10	3500	38	241	Size 08
	HB-S2D	12	5000	45	345	Size 08
	DE-S2D	15	3500	57	241	Size 10
	TT-S2D	30	3000	114	207	Size 12
	PB-S2J	8	2000	30	138	Size 08
	HB-S2K	12	5000	45	345	Size 08
	new UA-S2H	1	4000	4	276	Size 07
	PB-S2H	5	3000	19	207	Size 08
	DE-S2H	8	3500	30	241	Size 10
	HE-S2H	8	4000	30	276	Size 10



SOLENOID OPERATED DIRECTIONAL CONTROLS

3W2P SPOOL

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	UC-S3A	1	3500	4	241	Size 07
	PP-S3A	3	3000	11	207	Size 08
	DF-S3A	10	3000	38	207	Size 10
	HF-S3A	10	4000	38	276	Size 10
	PP-S3B	2.5	3000	9.5	207	Size 08
	DF-S3B	8	3000	30	207	Size 10
	HF-S3B	8	4000	30	276	Size 10
	HU-S3E	15	5000	57	345	Size 12
	HU-S3F	15	5000	57	345	Size 12
	PP-S3X	3	3000	11	207	Size 08
	PP-S3D	3	3000	11	207	Size 08
	DF-S3G	5	3500	19	241	Size 10

4W2P SPOOL

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	UD-S4A	1	4000	4	276	Size 07
	PQ-S4A	4	3000	15	207	Size 08
	DG-S4A	10	3500	38	241	Size 10
	HG-S4A	10	4000	38	276	Size 10
	HV-S4A	15	5000	57	345	Size 12
	UD-S4B	1.5	4000	6	276	Size 07
	PQ-S4B	4	3000	15	207	Size 08
	DG-S4B	10	3000	38	207	Size 10
	PQ-S4C	4	3000	15	207	Size 08
	DG-S4C	8	3000	30	207	Size 10
	HG-S4C	8	4000	30	276	Size 10
	PQ-S4D	2.5	3000	9.5	207	Size 08
	DG-S4D	6	3000	23	207	Size 10
	HG-S4D	8	4000	30	276	Size 10
	DG-S4E	6	3000	23	207	Size 10
	HG-S4E	8	4000	30	276	Size 10
	HV-S4E	15	5000	57	345	Size 12
	DG-S4F	6	3000	23	207	Size 10
	HG-S4F	6	4000	23	276	Size 10

4W3P SPOOL

	VQ-S4M	3	3000	11	207	Size 08
	PQ-S4M	5	3000	19	207	Size 08
	DG-S4M	6	3000	23	207	Size 10
	PQ-S4N	5	3000	19	207	Size 08
	DG-S4N	6	3000	23	207	Size 10
	VQ-S4R	2.5	3000	9.5	207	Size 08
	PQ-S4R	3	3000	11	207	Size 08
	PQ-S4O	3	3000	11	207	Size 08
	DG-S4O	8	3000	30	207	Size 10
	PQ-S4T	5	3000	19	207	Size 08
	VQ-S4Q	3.5	3000	13.2	207	Size 08
	PQ-S4P	5	3000	19	207	Size 08
	PQ-S4Q	6	3000	23	207	Size 08
	DG-S4P	8	3000	30	207	Size 10
	DG-S4S	6	3000	23	207	Size 10

TRANSMISSION & BRAKE

	TC-S3A	3	1000	11	70	Size 07
	UC-S3T	3	1500	11	103	Size 07
	DF-S3T	8	1500	30	103	Size 10
	IF-S3A-57	6	1000	23	70	T057 slip-in
	IC-S3D-250	2	1000	8	70	T250 slip-in
	IC-S3D-43	1.5	700	6	50	T043 slip-in
	IC-S3D-335	4	1000	15	70	T335 slip-in
	TF-S3D	6	1000	23	70	Size 10
	IF-S3D-57	6	1000	23	70	T057 slip-in
	TG-S4A	5	1000	19	70	Size 10
	IG-S4A-58	5	1000	19	70	T058 slip-in

PROPORTIONAL CONTROLS - MOTORIZED CONTROLS

PROPORTIONAL PRESSURE REDUCING/RELIEVING VALVES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	IP-DAR-250	1	700	4	50	T250 slip-in
	IP-DAR-43C	1	700 5000	4	50 345	T043 slip-in
	IP-RDN-335 INC	3	1000	11	70	T335 slip-in
	IP-RDS-222	7.5	700	30	50	T222 slip-in
	EF-PRP	12	3000	45	207	Size 10
	IP-PRZ-59	7.9	700	30	50	T059 slip-in
	EG-TRZ-42	7.9	700 3500	30	50 241	Size 10
	EG-PRZ	8	450	30	31	Size 10
	ES-PRZ	30	450	114	31	Size 12
	IP-RDN-335 DEC	3	1000	11	70	T335 slip-in

PROPORTIONAL PRESSURE RELIEF VALVES

	EE-PRB	20	3000	76	207	Size 10
	EE-PRD	20	3000	76	207	Size 10
	EE-SRD	20	3000	76	207	Size 10

2 WAY NORMALLY CLOSED PROP. FLOW CONTROL VALVES

	EE-P2G	13.2	3500	50	241	Size 10
	ET-P2S	23.7	3500	90	241	Size 12
	EB-P2A	6.5	3500	25	241	Size 08
	EE-P2A	12	3500	45	241	Size 10
	ET-P2A	29	3500	110	241	Size 12

2 WAY NORMALLY OPEN PROP. FLOW CONTROL VALVES

	EE-P2H	8	3500	30	241	Size 10
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2 WAY NORMALLY CLOSED PRESSURE COMPENSATED PROPORTIONAL FLOW REGULATOR VALVES

	EG-F2A	12	3500	45	241	Size 10
	EU-F2A	26	3500	100	241	Size 12

3 WAY NORMALLY CLOSED PRESSURE COMPENSATED

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	EF-F3G	6	3500	23	241	Size 10
	EU-F3G	16	3500	60	241	Size 12

4W3P PROPORTIONAL DIRECTIONAL CONTROL VALVES

	EQ-S4M	3	3500	11	241	Size 08
	EG-S4M	6	3500	23	241	Size 10
	EQ-S4P	3	3500	11	241	Size 08
	EG-S4P	6	3500	23	241	Size 10

MOTORIZED FLOW RESTRICTORS (NEEDLE VALVES)

	AE-NVA	10	3500	38	241	Size 10
	AJ-NVA	40	3500	150	241	Size 16

MOTORIZED 2W PRESSURE COMPENSATED FLOW REGULATORS

	AJ-FCA	25	3500	95	241	Size 16
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MOTORIZED 3W PRESSURE COMPENSATED FLOW REGULATORS

	AK-FCQ	25	3500	95	241	Size 16
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MOTORIZED RELIEF VALVES

	AJ-RVR	37	3500	140	241	Size 16
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MOTORIZED PRESSURE REDUCING VALVES

	AF-PRP	10	4000	38	276	Size 10
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MECHANICAL DIRECTIONAL CONTROLS

DIRECT ACTING CHECK VALVES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	IM-CVA	8	3000	30	207	In line
	MA-CVA	5	3500	19	241	Size 07
	HB-CVA	10	4350	38	300	Size 08
	DE-CVA	15	3500	57	241	Size 10
	HE-CVA	15	5000	57	345	Size 10
	HT-CVA	35	5000	132	345	Size 12
	SJ-CVA	40	3500	151	241	Size 16
	DE-CVB	10	3500	38	241	Size 10
	PB-CVC	10	3500	38	241	Size 08
	DE-CVC	8	3500	30	241	Size 10
	MA-CVS	2.5	1500	9.5	103	Size 07
	PB-CVS	5	3500	19	241	Size 08
	DE-CVS	10	1000	38	70	Size 10
	DE-CVR	15	3500	57	241	Size 10
	HT-CVR	35	5000	132	345	Size 12

PILOT TO OPEN AND DOUBLE PO CHECK VALVES

	PP-CPB	6	3500	23	241	Size 08
	DF-CPB	8	3500	30	241	Size 10
	DF-CPC	10	3500	38	241	Size 10
	PQ-CDP	5	3000	19	207	Size 08
	DG-CDP	8	3000	30	207	Size 10

PILOT TO CLOSE CHECK VALVES

	DF-CPD	10	3500	38	241	Size 10
	SL-CPD	20	3500	76	241	Size 16

CHECK VALVES WITH THERMAL RELIEF

	DE-CVT	15	4000	57	276	Size 10
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LOAD HOLDING VALVES

	QS-CBS	15	4000	57	276	In line
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SHUTTLE VALVES

	IM-CSB	10	3500	38	241	In line
	PP-CSB	6	3500	23	241	Size 08
	DF-CSB	8	3500	30	241	Size 10

2 WAY 2 POSITION MANUAL VALVES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	PB-MCA	12	3500	45	241	Size 08
	DE-MCA	15	3500	57	241	Size 10
	DE-MCF	20	1500	76	103	Size 10
	DE-MCS	20	3500	76	241	Size 10
	DE-MCB	20	3500	76	241	Size 10
	PB-MCI	8	3500	30	241	Size 08
	PB-MCL	8	3500	30	241	Size 08
	DE-MCL	15	3500	57	241	Size 10
	DE-M2G	20	3000	76	207	Size 10
	HB-MCP	1	4000	4	276	Size 08

MANUAL ROTARY VALVES

	SJ-MRA	40	3000	151	207	Size 16
	DF-M3A	12	3000	45	207	Size 10
	DG-M4A	10	3000	38	207	Size 10
	DG-M4B	15	3000	57	207	Size 10
	DG-M4C	12	3000	45	207	Size 10
	QS-MRS	25	3000	95	207	In line

PILOT TO SHIFT VALVES

	new HG-PDA	10	4000	38	276	Size 10
	new HG-PDC	10	4000	38	276	Size 10
	new DG-PDI	10	3000	38	207	Size 10
	new HG-PDO	10	4000	38	276	Size 10
	new HF-PDE	10	4000	38	276	Size 10
	DF-PDI	10	3000	38	207	Size 10
	SO-PTS	40	3500	151	241	Size 16
	SO-PTT	40	3500	151	241	Size 16

MECHANICAL PRESSURE CONTROLS

DIRECT ACTING AND DIFFERENTIAL AREA RELIEF VALVES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	DE-RCA	12	3500	45	241	Size 10
	MA-RVA	5	3000	19	207	Size 07
	PB-RVA PB-RWA	6	3500	23	241	Size 08
	DE-RVA DE-RWA	8	4000	30	276	Size 10
	NEW DE-RWF	20	4000	76	276	Size 10
	DE-RCD	15	3500	57	241	Size 10
	PB-RVD PB-RWD	8	3500	30	241	Size 08
	DE-RVD DE-RWD	15	4000	57	276	Size 10
	HE-RVD	40	5000	151	345	Size 10

PILOT OPERATED RELIEF VALVES

	DE-RVP DE-RWP	20 15	4000	76 57	276	Size 10
	HT-RVP	20	5000	76	345	Size 12
	DE-RVR DE-RWR	15	4000	57	276	Size 10
	SJ-RVR	40	3500	151	241	Size 16
	HE-RWP	40	5000	151	345	Size 10

CROSSOVER RELIEF VALVES

	DE-RVB	15	4000	57	276	Size 10
	DE-RVC	15	4000	57	276	Size 10

SHUT DOWN VALVES

	DE-PSD	15	4500	57	310	Size 10
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PRESSURE REDUCING/RELIEVING VALVES

	DF-PRP	10	3000	38	207	Size 10
	SK-PRP	20	3000	76	207	Size 16
	DF-PWP	10	4000	38	276	Size 10

PRESSURE COMPENSATED REGULATOR VALVES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	DF-PCR	10	3500	38	241	Size 10
	QC-CP3	33	3500	120	241	T031
	NEW PP-PCA	8	3500	30	241	Size 08
	TR-PCA	40	3500	151	241	Size 12
	SL-PCA	40	3500	151	241	Size 16
	DG-PCB	10	3500	38	241	Size 10
	DG-TCB	10	3500	38	241	Size 10
	PP-PCC	8	3000	30	207	Size 08
	DF-CP2	8	3500	30	241	Size 10
	TR-PCC	20	3500	76	241	Size 12
	QC-CP2	19	3500	70	241	T031
	DF-PCE	10	3500	38	241	Size 10
	SL-PCE	40	3500	151	241	Size 16
	DF-PCS	10	3500	38	241	Size 10
	DF-TCS	10	3500	38	241	Size 10
	DF-PCT	10	3500	38	241	Size 10

SEQUENCE VALVES

	DG-PSA	10	3000	38	207	Size 10
	DG-PSC	10	3000	38	207	Size 10
	DG-PSI	10	3000	38	207	Size 10
	DG-PSO	10	3000	38	207	Size 10
	DG-PSS	12	3000	45	207	Size 10
	DG-PTC	10	3000	38	207	Size 10
	DG-PTO	10	3000	38	207	Size 10
	DF-PWE	10	3000	38	207	Size 10
	DF-PWI	8	3000	30	207	Size 10
	SL-PWA	40	3500	151	241	Size 16
	SL-PWB	40	3500	151	241	Size 16

NEEDLE VALVES – FLOW RESTRICTORS

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	DE-FCH	12	3500	45	241	Size 10
	MA-NVA	6	3500	23	241	Size 07
	PB-NVA	6	3500	23	241	Size 08
	DE-NVA	10	3500	38	241	Size 10
	HT-NVA	35	5000	132	345	Size 12
	SJ-NVA	40	3500	151	241	Size 16
	PB-NVB	3	3500	11	241	Size 08
DE-NVB	15	3500	57	241	Size 10	

PRESSURE COMPENSATED FLOW REGULATOR VALVES

	MA-FCA	3	3000	11	207	Size 07
	PB-FCA	4	3500	15	241	Size 08
	DE-FCA	8	3500	30	241	Size 10
	PB-FCC	5	3500	19	241	Size 08
	DE-FCC	8	3500	30	241	Size 10
	DE-FAR	12	3500	45	241	Size 10
	HT-FCA	18	5000	68	345	Size 12
	SJ-FCA	25	3500	95	241	Size 16
	DE-FCB	8	3500	30	241	Size 10
	PB-FCF	6	3500	23	241	Size 08
	DE-FCF	8	3500	30	241	Size 10
	SJ-FCF	25	3500	95	241	Size 16

PRIORITY FLOW REGULATOR VALVES

	PP-FCQ	5	3500	19	241	Size 08
	DF-FCQ	10	3000	38	207	Size 10
	DF-FAP	10	3000	38	207	Size 10
	SK-FCQ	25	3000	95	207	Size 16
	PP-FCP	5	3500	19	241	Size 08
	DF-FCP	10	3000	38	207	Size 10
SK-FCP	25	3000	95	207	Size 16	

FLOW DIVIDER/COMBINER VALVES

	DG-FDA	12	3500	45	241	Size 10
	DG-FDH	12	3500	45	241	Size 10
	SN-FDA	40	3500	151	241	Size 16
	DG-FDB	12	3500	45	241	Size 10
	DG-FDT	12	3500	45	241	Size 10

VELOCITY FUSES

Schematic	Model	GPM	PSI	LPM	BAR	Cavity*
	IM-CVF	6	3500	23	241	In line
	DE-CVF	10	3500	38	241	Size 10

STEERING PRIORITY FLOW CONTROL

	DG-PDS	9	3000	34	207	Size 10
	SO-PDS	20	3000	76	207	Size 16
	DG-PDD	9	3000	34	207	Size 10
	SO-PDD	20	3000	76	207	Size 16

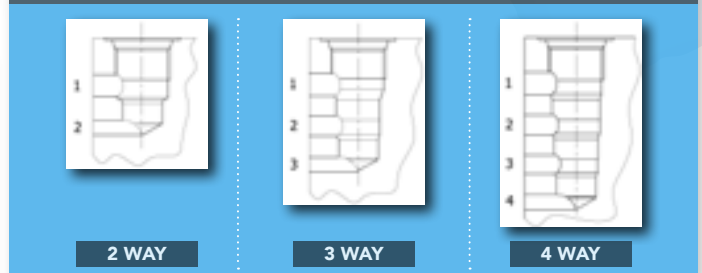
LOGIC ELEMENTS

	SL-PLA	40	3500	151	241	Size 16
	SL-PLB	40	3500	151	241	Size 16
	SL-PLC	40	3500	151	241	Size 16

HAND PUMPS

	DE-HPA PUSH TO PUMP	0.35 cu in/stroke	500	5.8 cc/stroke	34	Size 10
	DE-HPB PUSH TO PUMP	0.39 cu in/stroke	3000	6.4 cc/stroke	207	Size 10
	DE-HPE PULL TO PUMP	0.39 cu in/stroke	3000	6.4 cc/stroke	207	Size 10
	DE-HPC PUSH TO PUMP	0.35 cu in/stroke	500	5.8 cc/stroke	34	Size 10
	DE-HPD PUSH TO PUMP	0.39 cu in/stroke	3000	6.4 cc/stroke	207	Size 10
	DE-HPF PULL TO PUMP	0.39 cu in/stroke	3000	6.4 cc/stroke	207	Size 10

* CAVITY CONVENTION



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