

HIGH PERFORMANCE VALVES For Demanding Applications

**4200 PRESSURE TESTED
SOLENOID OPERATED DIRECTIONAL CONTROLS
MECHANICAL DIRECTIONAL CONTROLS
MECHANICAL PRESSURE CONTROLS
MECHANICAL FLOW CONTROLS**



SOLENOID OPERATED DIRECTIONAL CONTROLS

2W2P Normally Closed

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
PILOT OPERATED POPPET						
	HMA-S2A	5	4200	19	290	5/8-18
	HPB-S2A	12	5000	45	345	3/4-16
	HDE-S2A	20	4200	75	290	7/8-14
	HTT-S2A	25	5000	95	345	1 1/16-12
	HSJ-S2A	40	4200	151	290	1 5/16-12
PILOT OPERATED POPPET - REVERSE FLOW ENERGIZED						
	HPB-S2B	12	5000	45	345	3/4-16
	HDE-S2B	20	4200	75	290	7/8-14
	HTT-S2B	25	5000	95	345	1 1/16-12
	HSJ-S2B	40	4200	151	290	1 5/16-12
PILOT OPERATED BIDIRECTIONAL POPPET						
	HPB-S2L	12	5000	45	345	3/4-16

2W2P Normally Open

PILOT OPERATED POPPET - REVERSE FLOW DE-ENERGIZED						
	HB-S2D	12	5000	45	345	3/4-16
	HSJ-S2D	40	4200	151	290	1 5/16-12
PILOT OPERATED BIDIRECTIONAL POPPET						
	HPB-S2K	12	5000	45	345	3/4-16
SPOOL						
	HDE-S2H	8	4200	30	290	7/8-14

3W2P Spool

STANDARD and SELECTOR 3->2 - 3->1						
	*HDF-S3C	5	4200	19	290	7/8-14
DIRECT ACTING SPOOL VALVE						
	HDF-S3H	5	4200	19	290	7/8-14
STANDARD 2->1 - 3->2						
	HTU-S3E	15	5000	57	345	1 1/16-12
SELECTOR 2->1 - 2->3						
	HTU-S3F	15	5000	57	345	1 1/16-12

4W2P Spool

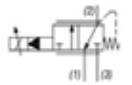
SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
CRISS-CROSS						
	HDG-S4A	6	4500	23	310	7/8-14
	HTV-S4A	15	5000	57	345	1 1/16-12
CLOSED CENTER						
	HDG-S4B	6	4500	23	310	7/8-14
TANDEM CENTER						
	HDG-S4C	6	4500	23	310	7/8-14
CRISS-CROSS REVERSED						
	HDG-S4D	6	4500	23	310	7/8-14
SERIES/PARALLEL						
	HDG-S4E	6	4500	23	310	7/8-14
	HTV-S4E	15	5000	57	345	1 1/16-12
ENERGIZED TO BLOCK						
	HDG-S4F	6	4500	23	310	7/8-14

4W3P Spool

MOTOR CENTER						
	*HPQ-S4M	3	4200	11	290	3/4-16
	HDG-S4M	4	4200	16	290	7/8-14
TANDEM CENTER						
	HPQ-S4N	3	4200	11	290	3/4-16
OPEN CENTER						
	*HPQ-S4O	3	4200	11	290	3/4-16
	HDG-S4O	6	4200	23	290	7/8-14
CLOSED CENTER						
	HPQ-S4P	3	4200	11	290	3/4-16
	*HDG-S4P	6	4200	23	290	7/8-14

ELECTRO-PROPORTIONAL CONTROLS

Pressure Reducing / Relieving

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
PILOT OPERATED - SIDE INLET IN 3						
	*EN063-PRZ	30	4500	114	31	1 1/16-12

MECHANICAL DIRECTIONAL CONTROLS

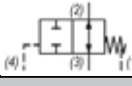
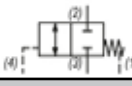
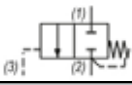
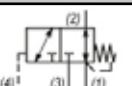
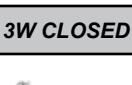
Check

STANDARD						
	HMA-CVA	5	4200	19	290	5/8-18
	HPB-CVA	10	4200	38	290	3/4-16
	HDE-CVA	15	5000	57	345	7/8-14
	HTT-CVA	35	5000	132	345	1 1/16-12
	HSJ-CVA	35	4200	132	290	1 5/16-12
REVERSE FLOW						
	HTT-CVR	35	5000	132	345	1 1/16-12

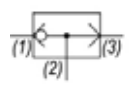
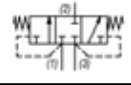
Pilot Operated Check

PILOT TO OPEN						
	*HDF-CPA	6	4200	23	290	7/8-14
PILOT TO CLOSE						
	HDF-CPD	5	4200	19	290	7/8-14
	HSL-CPD	20	4200	76	290	1 5/16-12

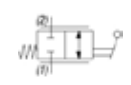
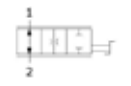
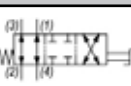
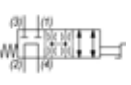
Pilot to Shift

2W NORMALLY OPEN - EXTERNAL PILOT & DRAIN						
	HDG-PDO	10	4200	38	290	7/8-14
2W NORMALLY CLOSED - EXTERNAL PILOT & DRAIN						
	HDG-PDC	10	4200	38	290	7/8-01
2W NORMALLY CLOSED - EXTERNAL PILOT						
	HDF-PDE	10	4200	38	290	7/8-14
3W EXTERNAL PILOT & INTERNAL DRAIN						
	HDG-PDA	10	4200	38	290	7/8-14
3W OPEN TRANSITION						
	*HSO-PTS	35	4200	132	290	1 5/16
3W CLOSED TRANSITION						
	*HSO-PTT	35	4200	132	290	1 5/16

Shuttle

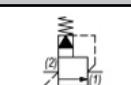
SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
SHUTTLE						
	*HN071-CSB	1	4200	4	290	9/16-18
HOT OIL SHUTTLE - CLOSED TRANSITION						
	*HDG-PSS	10	4200	38	290	7/8/14

Rotary

2W2P						
	HSJ-MRA	40	4200	151	290	1 5/16-12
2W NORMALLY OPEN						
	HDE-M2H	20	4200	76	290	7/8-14
3W2P - CLOSED TRANSITION						
	HDF-M3C	10	4200	38	290	7/8-14
	*HDF-M3H	10	4200	38	290	5/8/18
4W2P CRISS-CROSS						
	*HDG-M4A	8	4200	30	290	7/8/14
4W2P CLOSED CENTER						
	*HDG-M4B	12	4200	45	290	7/8/14
4W2P TANDEM CENTER						
	*HDG-M4C	6	4200	23	290	7/8/14

MECHANICAL PRESSURE CONTROLS

Relief

DIRECT ACTING						
	*HMA-RVA	2	4200	8	290	5/8-18
DIFFERENTIAL AREA						
	HDE-RVD	40	4500	151	310	7/8-14
PILOT OPERATED						
	HDE-RCP	15	4200	57	290	7/8-14
	HDE-RWP	40	4500	151	310	7/8-14
	HTT-RVP	20	5000	76	345	1 1/16-12

MECHANICAL PRESSURE CONTROLS (Con't)

Relief (Con't)

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
PILOT OPERATED - FREE REVERSE FLOW						
	*HSJ-RWR	40	4200	151	290	1 5/16-12
CROSSOVER (PARALLEL)						
	*HDE-RWB	15	4200	57	290	7/8-14
CROSSOVER (SERIES)						
	*HDE-RWC	15	4200	57	290	7/8-14

Pressure Compensator

BYPASS						
	HDF-PCE	10	4200	38	290	7/8-14
	*HSL-PCE	30	4200	115	290	1 5/16-12
PRIORITY						
	*HDG-PCB	8	4200	30	290	7/8-14
RESTRICTIVE (POST-COMPENSATION)						
	*HDF-PCS	8	4200	30	290	7/8-14
	*HDF-PCT	8	4200	30	290	7/8-14

Shut Down

2W NORMALLY CLOSED - EXTERNAL PILOT & DRAIN						
	DE-PSD	15	4500	57	310	7/8-14

MECHANICAL FLOW CONTROLS

Needle

FLOW RESTRICTORS						
	HMA-NVA	8	4200	30	290	5/8-18
	HPB-NVA	8	4200	30	290	3/4-16
	HDE-NVA	14	4200	53	290	7/8-14
	HTT-NVA	35	5000	133	345	1 1/16-12
	HSJ-NVA	40	4200	151	290	1 5/16-12
	HPB-NVB	4	4200	15	290	3/4-16
	HDE-NVB	18	4200	68	290	7/8-14

Restrictive Flow Regulators

PRESSURE COMPENSATED - ADJUSTABLE						
	HDE-FAR	12	4200	45	290	7/8-14
	HJT-FAR	18	5000	68	345	1 1/16-12
	HJS-FAR	20	4200	75	290	1 5/16-12

Restrictive Flow Regulators (Con't)

PRESSURE COMPENSATED - FIXED						
	HPB-FCF	5	4200	19	290	3/4-16

Priority Flow Regulators

PRESSURE COMPENSATED - ADJUSTABLE						
	HDF-FAP	10	4200	38	290	7/8-14
PRESSURE COMPENSATED - FIXED						
	*HSO-PDS	6	4200	23	290	3/4-16
STATIC LS STEERING PRIORITY						
	HSO-PDS	20	4200	76	290	1 5/16-12

Flow Divider/Combiners

DIVIDER ONLY						
	HDG-FDB	12	4200	45	290	7/8-14

Logic Elements

ON / OFF						
	*HSL-PLA	40	4200	151	290	1 5/16-12
BYPASS COMPENSATORS						
	HSL-PCE	30	4200	115	290	1 5/16-12
RESTRICTIVE (POST-COMPENSATION)						
	*HDF-PCT	8	4200	30	290	7/8-14



DELTA POWER COMPANY

4484 Boeing Drive Rockford, IL 61109 - USA Phone
+1 (815) 397-6628 - Fax +1 (815) 397-2526 mail:
delta@delta-power.com
www.delta-power.com



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4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com

* = Consult Factory