

# HYDRAULIC CARTRIDGE VALVES

SELECTED for DISTRIBUTION

MARCH 2023

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# SOLENOID OPERATED DIRECTIONAL CONTROLS

## 2W2P Normally Closed

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PILOT OPERATED POPPET</b>						
	HMA-S2A	5	4200	19	290	5/8-18
	PB-S2A	8	3500	30	241	3/4-16
	HPB-S2A	12	5000	45	345	3/4-16
	DE-S2A	15	3500	57	241	7/8-14
	HDE-S2A	20	4200	75	290	7/8-14
	TT-S2A	25	3000	95	207	1 1/16-12
	HTT-S2A	25	5000	95	345	1 1/16-12
	SJ-S2A	30	3500	114	241	1 5/16-12
	HSJ-S2A	40	4200	151	290	1 5/16-12
<b>PILOT OPERATED POPPET - REVERSE FLOW ENERGIZED</b>						
	PB-S2B	8	3500	30	241	3/4-16
	HPB-S2B	12	5000	45	345	3/4-16
	DE-S2B	15	3500	57	241	7/8-14
	HDE-S2B	20	4200	75	290	7/8-14
	TT-S2B	25	3000	95	207	1 1/16-12
	HTT-S2B	25	5000	95	345	1 1/16-12
	SJ-S2B	30	3500	114	241	1 5/16-12
HSJ-S2B	40	4200	151	290	1 5/16-12	
<b>PILOT OPERATED POPPET - SOFT SEAT</b>						
	UA-S2F	4	3000	15	207	5/8-18
	PB-S2F	6	2500	23	172	3/4-16
	DE-S2F	10	1000	38	69	7/8-14
<b>DIRECT ACTING BIDIRECTIONAL POPPET</b>						
	UA-S2E	0.2	4000	0.76	276	5/8-18
	PB-S2I	3	3600	11	250	3/4-16
	DE-S2I	3	3000	11	207	7/8-14
<b>PILOT OPERATED BIDIRECTIONAL POPPET</b>						
	HPB-S2L	12	5000	45	345	3/4-16
<b>SPOOL</b>						
	UA-S2G	1.5	4000	6	276	5/8-18
	PB-S2G	8	3000	30	207	3/4-16
	DE-S2G	8	3000	30	207	7/8-14
	HDE-S2G	15	4000	57	276	7/8-14

## 2W2P Normally Open

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PILOT OPERATED POPPET</b>						
	PB-S2D	10	3500	38	241	3/4-16
	HB-S2D	12	5000	45	345	3/4-16
	DE-S2D	15	3500	57	241	7/8-14
	TT-S2D	30	3000	114	207	1 1/16-12
	SJ-S2D	40	3000	151	207	1 5/16-12
	HSJ-S2D	40	4200	151	290	1 5/16-12

## 2W2P Normally Open (Con't)

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PILOT OPERATED POPPET - REVERSE FLOW DE-ENERGIZED</b>						
	PB-S2D	10	3500	38	241	3/4-16
	HB-S2D	12	5000	45	345	3/4-16
	DE-S2D	15	3500	57	241	7/8-14
	TT-S2D	30	3000	114	207	1 1/16-12
	SJ-S2D	40	3000	151	207	1 5/16-12
	HSJ-S2D	40	4200	151	290	1 5/16-12
<b>PILOT OPERATED POPPET - SOFT SEAT</b>						
	PB-S2J	8	2000	30	138	3/4-16
<b>PILOT OPERATED BIDIRECTIONAL POPPET</b>						
	HPB-S2K	12	5000	45	345	3/4-16
<b>SPOOL</b>						
	UA-S2H	1	4000	4	276	5/8-18
	PB-S2H	5	3000	19	207	3/4-16
	DE-S2H	8	3500	30	241	7/8-14
	HDE-S2H	8	4200	30	290	7/8-14

## 3W2P Spool

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>STANDARD 3-&gt;2 - 1-&gt;3</b>						
	UC-S3A	1	3500	4	241	5/8-18
	PP-S3A	3	3000	11	207	3/4-16
	DF-S3A	10	3000	38	207	7/8-14
<b>SELECTOR 3-&gt;2 - 3-&gt;1</b>						
	PP-S3B	2.5	3000	9.5	207	3/4-16
	DF-S3B	8	3000	30	207	7/8-14
<b>STANDARD and SELECTOR 3-&lt;-&gt;2 - 3-&lt;-&gt;1</b>						
	DF-S3C	6	3000	23	207	7/8-14
	HDF-S3C	2	725	8	50	5/8-18
<b>DIRECT ACTING SPOOL VALVE</b>						
	DF-S3H	5	3000	19	207	7/8-14
	HDF-S3H	5	4200	19	290	7/8-14
<b>STANDARD 2-&gt;1 - 3-&gt;2</b>						
	HTU-S3E	15	5000	57	345	1 1/16-12
<b>SELECTOR 2-&gt;1 - 2-&gt;3</b>						
	PP-S3D	3	3000	11	207	3/4-16
	HTU-S3F	15	5000	57	345	1 1/16-12
<b>SELECTOR 2-&gt;3 - 2-&gt;1</b>						
	PP-S3X	3	3000	11	207	3/4-16

# SOLENOID OPERATED DIRECTIONAL CONTROLS (CON'T)

## 4W2P Spool

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>CRISS-CROSS</b>						
	UD-S4A	1	4000	4	276	5/8-18
	PQ-S4A	4	3000	15	207	3/4-16
	DG-S4A	10	3500	38	241	7/8-14
	HDG-S4A	6	4500	23	310	7/8-14
	HTV-S4A	15	5000	57	345	1 1/16-12
<b>CLOSED CENTER</b>						
	UD-S4B	1.5	4000	6	276	5/8-18
	PQ-S4B	4	3000	15	207	3/4-16
	DG-S4B	10	3000	38	207	7/8-14
	HDG-S4B	6	4500	23	310	7/8-14
<b>TANDEM CENTER</b>						
	PQ-S4C	4	3000	15	207	3/4-16
	DG-S4C	8	3000	30	207	7/8-14
	HDG-S4C	6	4500	23	310	7/8-14
<b>CRISS-CROSS (REVERSED)</b>						
	PQ-S4D	2.5	3000	9.5	207	3/4-16
	DG-S4D	6	3000	23	207	7/8-14
	HDG-S4D	6	4500	23	310	7/8-14
<b>SERIES/PARALLEL</b>						
	DG-S4E	6	3000	23	207	7/8-14
	HDG-S4E	6	4500	23	310	7/8-14
	HTV-S4E	15	5000	57	345	1 1/16-12
<b>ENERGIZED TO BLOCK</b>						
	DG-S4F	6	3000	23	207	7/8-14
	HDG-S4F	6	4500	23	310	7/8-14

## 4W3P Spool

<b>MOTOR CENTER</b>						
	VQ-S4M	3	3000	11	207	3/4-16
	PQ-S4M	5	3000	19	207	3/4-16
	HPQ-S4M	3	4200	1.3	290	3/4-16
	DG-S4M	6.5	3000	25	207	7/8-14
	HDG-S4M	4	4200	16	290	7/8-14
<b>TANDEM CENTER</b>						
	PQ-S4N	5	3000	19	207	3/4-16
	HPQ-S4N	3	4200	11.3	290	3/4-16
	DG-S4N	6	3000	23	207	7/8-14
	VQ-S4R	2.5	3000	9.5	207	3/4-16
	PQ-S4R	3	3000	11	207	3/4-16
<b>OPEN CENTER</b>						
	PQ-S4O	3	3000	11	207	3/4-16
	HPQ-S4O	3	4200	11.3	290	3/4-16
	DG-S4O	8	3000	30	207	7/8-14
	HDG-S4O	6	4200	23	290	7/8-14
	PQ-S4T	5	3000	19	207	3/4-16

## 4W3P Spool (Con't)

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>CLOSED CENTER</b>						
	VQ-S4Q	3.5	3000	13.2	207	3/4-16
	PQ-S4Q	6	3000	23	207	3/4-16
	PQ-S4P	6	3000	23	207	3/4-16
	HPQ-S4P	3	4200	11.3	290	3/4-16
	DG-S4P	8	3000	30	207	7/8-14
	HDG-S4P	6	4200	23	290	7/8-14
<b>SCOTCH CENTER</b>						
	DG-S4S	6	3000	23	207	7/8-14

## Transmission & Brake

<b>3W2P SCREW-IN STYLE</b>						
	UC-S3T	3	1500	11	103	5/8-18
	DF-S3T	8	1500	30	103	7/8-14
<b>PILOT OPERATED - SIDE INLET IN 3</b>						
	DG-PRZ	8	450	30	31	7/8/14
	EN063-PRZ	30	450	114	31	1 1/16-12
<b>DIRECT ACTING</b>						
	EMC-PRV	2	725	8	50	5/8-18
	EN043-PRR	1	5000	4	345	slip-in



# PROPORTIONAL CONTROLS

## Pressure Reducing / Relieving

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>DIRECT ACTING</b>						
	EMC-PRV	2	725	8	50	5/8-18
	EN043-PRR	1	5000	4	345	slip-in
<b>PILOT OPERATED</b>						
	EDF-PDP	12	3000	45	207	7/8-14
<b>PILOT OPERATED - SIDE INLET IN 3</b>						
	EDG-PRZ	8	450	30	31	7/8-14
	EN063-PRZ	30	450	114	31	1 1/16-12

## Pressure Relief

<b>NORMALLY CLOSED - PILOT OPERATED</b>						
	EPB-RBA	1	3500	4	241	3/4-16
	EDE-RBP	20	3000	76	207	7/8-14
<b>NORMALLY OPEN - PILOT OPERATED</b>						
	EDE-RDP	20	3000	76	207	7/8-14
	EDE-RDS	20	3000	76	207	7/8-14

## 2W Flow Control

<b>NORMALLY CLOSED - SPOOL</b>						
	EDE-S2G	10	3500	38	241	7/8-14
	ETT-S2S	*	3500	*	241	1 1/16-12
<b>NORMALLY CLOSED - POPPET</b>						
	EDE-S2A	*	3650	*	250	7/8-14
	ETT-S2A	25	3500	95	241	1 1/16-12
<b>NORMALLY OPEN - SPOOL</b>						
	EDE-S2H		3500		241	7/8-14
	DG-S4C	8	3000	30	207	7/8-14
	HDG-S4C	6	4500	23	310	7/8-14
<b>NORMALLY OPEN - POPPET</b>						
	ETT-S2C	*	3500	*	241	1 1/16-12

## 3W Flow Control

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PRESSURE COMPENSATED - NORMALLY CLOSED - SPOOL</b>						
	EDF-FAP	6.5	3500	25	241	7/8-14
	ETU-FAP	16	3500	60	241	1 1/16-12

## 4W Directional

<b>MOTOR CENTER</b>						
	EDG-S4M	5	3000	20	207	7/8-14
<b>CLOSED CENTER</b>						
	EDG-S4P	5	3500	20	241	7/8-14

# MECHANICAL DIRECTIONAL CONTROLS

## Check

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>STANDARD</b>						
	IM-CVA	8	3000	30	207	5/8-18
	MA-CVA	5	3500	19	241	5/8-18
	HMA-CVA	5	4200	19	290	5/8-18
	HPB-CVA	10	4200	38	290	3/4-16
	DE-CVA	15	3500	57	241	7/8-14
	HDE-CVA	15	5000	57	345	7/8-14
	HTT-CVA	35	5000	132	345	1 1/16-12
	SJ-CVA	40	3500	151	241	1 5/16-12
	HSJ-CVA	35	4200	132	290	1 5/16-12
	DE-CVB	10	3500	38	241	7/8-14
	PB-CVC	10	3500	38	241	3/4-16
	DE-CVC	8	3500	30	241	7/8-14
<b>STANDARD - SOFT SEAT</b>						
	MA-CVS	2.5	1500	9.5	103	5/8-18
	PB-CVS	5	3500	19	241	3/4-16
	DE-CVS	10	1000	38	70	7/8-14
<b>REVERSE FLOW</b>						
	DE-CVR	15	3500	57	241	7/8-14
	HTT-CVR	35	5000	132	345	1 1/16-12
<b>CHECK WITH THERMAL RELEASE</b>						
	DE-CVT	15	4000	57	276	7/8-14

# MECHANICAL DIRECTIONAL CONTROLS (Con't)

## Pilot Operated Check

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PILOT TO OPEN</b>						
	HDF-CPA	6	4200	23	290	7/8-14
	PP-CPB	6	3500	23	241	3/4-16
	DF-CPB	8	3500	30	241	7/8-14
	DF-CPC	10	3500	38	241	7/8-14
<b>DOUBLE PILOT TO OPEN</b>						
	PQ-CDP	5	3000	19	207	3/4-16
<b>PILOT TO CLOSE</b>						
	DF-CPD	10	3500	38	241	7/8-14
	HDF-CPD	5	4200	19	290	7/8-14
	SL-CPD	20	3500	76	241	1 5/16-12
	HSL-CPD	20	4200	76	290	1 5/16-12

## Manual Operated

<b>2W2P NORMALLY CLOSED - PULL TYPE</b>						
	PB-MCA	12	3500	45	241	3/4-16
<b>2W2P NORMALLY CLOSED - PULL TYPE (Con't)</b>						
	DE-MCA	15	3500	57	241	7/8-14
	DE-MCF	20	1500	76	103	7/8-14
	DE-MCS	20	3500	76	241	7/8-14
<b>2W2P NORMALLY CLOSED - PULL TYPE W/DETENT</b>						
	DE-MCB	20	3500	76	241	7/8-14
<b>2W2P NORMALLY CLOSED - BIDIRECTIONAL</b>						
	PB-MCI	8	3500	30	241	3/4-16
<b>2W2P NORMALLY CLOSED - PULL TYPE W/LEVER</b>						
	PB-MCL	8	3500	30	241	3/4-16
	DE-MCL	15	3500	57	241	7/8-14
<b>2W2P NORMALLY CLOSED - PUSH TYPE</b>						
	HPB-MCP	1	4200	4	291	3/4-16

## Pilot To Shift

<b>2W NORMALLY OPEN - EXTERNAL PILOT &amp; DRAIN</b>						
	HG-PDO	10	4200	38	290	7/8-14
<b>2W NORMALLY CLOSED - EXTERNAL PILOT &amp; DRAIN</b>						
	HDG-PDC	10	4200	38	290	7/8-01

## Pilot To Shift (Con't)

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>2W NORMALLY CLOSED - EXTERNAL PILOT</b>						
	HDF-PDE	10	4200	38	290	7/8-14
<b>3W EXTERNAL PILOT &amp; INTERNAL DRAIN</b>						
	HDG-PDA	10	4200	38	290	7/8-14
<b>3W INTERNAL PILOT &amp; EXTERNAL DRAIN</b>						
	DG-PDI	10	3000	38	207	7/8-14
<b>3W INTERNAL PILOT &amp; DRAIN</b>						
	DF-PDI	10	3000	38	207	7/8-14
<b>3W OPEN TRANSITION</b>						
	SO-PTS	40	3500	151	241	1 5/16
	HSO-PTS	35	4200	132	290	1 5/16
<b>3W CLOSED TRANSITION</b>						
	SO-PTT	40	3500	151	241	1 5/16
	HSO-PTT	35	4200	132	290	1 5/16

## Shuttle

SHUTTLE						
	IM-CSB	10	3500	38	241	9/16-18
	HN071-CSB	1	4200	4	290	9/16-18
	PP-CSB	6	3500	23	241	3/4-16
	DF-CSB	8	3500	30	241	7/8-14
<b>HOT OIL SHUTTLE - CLOSED TRANSITION</b>						
	DG-PSS	12	3000	45	207	7/8-14
	HDG-PSS	10	4200	38	290	7/8-14

## Rotary

<b>2W2P</b>						
	SJ-MRA	40	3000	151	207	1 5/16-12
	HSJ-MRA	40	4200	151	290	1 5/16-12
<b>2W NORMALLY CLOSED</b>						
	DE-M2G	20	3000	76	207	7/8-14
<b>2W NORMALLY OPEN</b>						
	HDE-M2H	20	4200	76	290	7/8-14
<b>3W2P - CLOSED TRANSITION</b>						
	HDF-M3C	*	4200	*	290	7/8-14
<b>3W2P</b>						
	DF-M3A	12	3000	45	207	7/8-14

# MECHANICAL DIRECTIONAL CONTROLS (Con't)

## Rotary

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>3W2P</b>						
	HDF-M3H	2	725	8	50	5/8-18
<b>4W2P CRISS-CROSS</b>						
	DG-M4A	10	3000	38	207	7/8-14
	HDG-M4A		4200		290	7/8-14
<b>4W2P CLOSED CENTER</b>						
	DG-M4B	15	3000	57	207	7/8-14
	HDG-M4B	*	4200	*	290	7/8-14
<b>4W2P TANDEM CENTER</b>						
	DG-M4C	12	3000	45	207	7/8-14
	HDG-M4C	*	4200	*	290	7/8-14
<b>6W2P IN-LINE</b>						
	QS-MRS	25	3000	95	207	7/8-14

## MECHANICAL PRESSURE CONTROLS

### Relief

<b>DIRECT ACTING</b>						
	DE-RCD	15	3500	57	241	7/8-14
	HDE-RCD	15	4200	57	290	7/8-14
	PB-RVD	8	3500	30	241	3/4-16
	DE-RVD	15	4000	57	276	7/8-14
	HDE-RVD	40	4500	151	310	7/8-14
	PB-RWD	8	3500	30	241	3/4-16
	DE-RWD	15	4000	57	276	7/8-14
	DE-RWF	20	4000	76	276	7/8-14
<b>DIFFERENTIAL AREA</b>						
	DE-RCD	15	3500	57	241	7/8-14
	HDE-RCD	15	4200	57	290	7/8-14
	PB-RVD	8	3500	30	241	3/4-16
	DE-RVD	15	4000	57	276	7/8-14
	HDE-RVD	40	4500	151	310	7/8-14
	PB-RWD	8	3500	30	241	3/4-16
	DE-RWD	15	4000	57	276	7/8-14
<b>PILOT OPERATED</b>						
	HDE-RCP	15	4200	57	290	7/8-14
	DE-RVP	20	4000	76	276	7/8-14
	DE-RWP	15	4000	57	276	7/8-14
	HDE-RWP	40	4500	151	310	7/8-14
	HTT-RVP	20	5000	76	345	1 1/16-12
<b>PILOT OPERATED - FREE REVERSE FLOW</b>						
	DE-RVR	15	4000	57	276	7/8-14
	DE-RWR	15	4000	57	276	7/8-14
	SJ-RVR	40	3500	151	241	1 5/16-12
	HSJ-RWR	40	4200	151	290	1 5/16-12

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>CROSSOVER (PARALLEL)</b>						
	DE-RVB	15	4000	57	276	7/8-14
	HDE-RWB	15	4200	57	290	7/8-14
<b>CROSSOVER (SERIES)</b>						
	DE-RVC	15	4000	57	276	7/8-14
	HDE-RWC	15	4200	57	290	7/8-14

## Pressure Compensator

<b>BYPASS</b>						
	DF-PCR	10	3500	38	241	7/8-14
	DF-PCE	10	3500	38	241	7/8-14
	SL-PCE	40	3500	151	241	1 5/16-12
	HSL-PCE	30	4200	115	290	1 5/16-12
	TR-PCA	40	3500	151	241	1 1/16-12
	PP-PCA	8	3500	30	241	3/4-16
SL-PCA	40	3500	151	241	1 5/16-12	
<b>PRIORITY</b>						
	DG-PCB	10	3500	38	241	7/8-14
	HDG-PCB	8	4200	30	290	7/8-14
<b>RESTRICTIVE (PRE-COMPENSATION)</b>						
	PP-PCC	8	3000	30	207	3/4-16
	TR-PCC	20	3500	76	241	1 1/16-12
<b>RESTRICTIVE (POST-COMPENSATION)</b>						
	DF-PCS	10	3500	38	241	7/8-14
	HDF-PCS	8	4200	30	290	7/8-14
	DF-PCT	10	3500	38	241	7/8-14
	HDF-PCT	8	4200	30	290	7/8-14

## Reducing/Relieving

<b>PILOT OPERATED</b>						
	DF-PRP	10	3000	38	207	7/8-14
	SK-PRP	20	3000	76	207	1 5/16-12
	PP-PWP	6	3500	23	241	3/4-16
	DF-PWP	10	4000	38	276	7/8-14
	HDF-PWP	10	4500	38	310	7/8-14

## Sequence

<b>3W EXTERNAL PILOT &amp; INTERNAL DRAIN</b>						
	DG-PSA	10	3000	38	207	7/8-14
<b>2W NORMALLY CLOSED - EXTERNAL PILOT &amp; DRAIN</b>						
	DG-PSC	10	3000	38	207	7/8-14
	DG-PTC	10	3000	38	207	7/8-14
<b>3W INTERNAL PILOT &amp; EXTERNAL DRAIN</b>						
	DG-PSI	10	3000	38	207	7/8-14
<b>2W NORMALLY OPEN - EXTERNAL PILOT &amp; DRAIN</b>						
	DG-PSO	10	3000	38	207	7/8-14
	DG-PTO	10	3000	38	207	7/8-14

# MECHANICAL PRESSURE CONTROLS (Con't)

## Sequence (Con't)

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>2W NORMALLY CLOSED - EXTERNAL PILOT &amp; INTERNAL DRAIN</b>						
	DF-PWE	10	3000	38	207	7/8-14
<b>3W INTERNAL PILOT &amp; DRAIN</b>						
	DF-PWI	8	3000	30	207	7/8-14
<b>2W NORMALLY CLOSED - EXTERNAL PILOT</b>						
	SL-PWA	40	3500	151	241	1 5/16-12
<b>2W NORMALLY CLOSED - EXTERNAL PILOT - REVERSE FREE FLOW</b>						
	SL-PWB	40	3500	151	241	1 5/16-12

## Shut Down

<b>2W NORMALLY CLOSED - EXTERNAL PILOT &amp; DRAIN</b>						
	DE-PSD	15	4500	57	310	7/8-14
	HDE-PSD	15	4500	57	310	7/8-14

# MECHANICAL FLOW CONTROLS

## Needle

<b>FLOW RESTRICTORS</b>						
	MA-NVA	6	3500	23	241	5/8-18
	HMA-NVA	8	4200	30	290	5/8-18
	PB-NVA	6	3500	23	241	3/4-16
	HPB-NVA	8	4200	30	290	3/4-16
	DE-NVA	10	3500	38	241	7/8-14
	HDE-NVA	14	4200	53	290	7/8-14
	HTT-NVA	35	5000	133	345	1 1/16-12
	SJ-NVA	40	3500	151	241	1 5/16-12
	HSJ-NVA	40	4200	151	290	1 5/16-12
	PB-NVB	3	3500	11	241	3/4-16
	HPB-NVB	4	4200	15	290	3/4-16
	DE-NVB	15	3500	57	241	7/8-14
	HDE-NVB	18	4200	68	290	7/8-14
	<b>FLOW RESTRICTORS WITH REVERSE CHECK</b>					
	DE-FCH	12	3500	45	241	7/8-14

## Restrictive Flow Regulators

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>PRESSURE COMPENSATED - ADJUSTABLE</b>						
	MA-FCA	3	3000	11	207	5/8-18
	PB-FCA	4	3500	15	241	3/4-16
	DE-FCA	8	3500	30	241	7/8-14
	PB-FCC	5	3500	19	241	3/4-16
	DE-FCC	11	3500	41.5	241	7/8-14
	DE-FAR	12	3500	45	241	7/8-14
	HDE-FAR	12	4200	45	290	7/8-14
	TT-FAR	18	3500	68	241	1 1/16-12
	HTT-FAR	18	5000	68	345	1 1/16-12
	SJ-FAR	25	3500	95	241	1 5/16-12
HSJ-FAR	20	4200	75	290	1 5/16-12	
<b>PRESSURE COMPENSATED - FIXED</b>						
	DE-FCB	8	3500	30	241	7/8-14
	PB-FCF	5	3500	19	241	3/4-16
	DE-FCF	8	3500	30	241	7/8-14
	SJ-FCF	25	3500	95	241	1 5/16-12

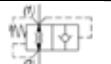
## Priority Flow Regulators

<b>PRESSURE COMPENSATED - ADJUSTABLE</b>						
	PP-FCQ	5	3500	19	241	3/4-16
	DF-FAP	10	3000	38	207	7/8-14
	HDF-FAP	10	4200	38	290	7/8-14
	SK-FCQ	25	3000	95	207	1 5/16-12
	SK-FAP	25	3000	95	207	1 5/16-12
HSK-FAP	20	4200	75	290	1 5/16-12	
<b>PRESSURE COMPENSATED - FIXED</b>						
	PP-FCP	5	3500	19	241	3/4-16
	DF-FCP	10	3000	38	207	7/8-14
	SK-FCP	25	3000	95	207	1 5/16-12
<b>STATIC LS STEERING PRIORITY</b>						
	DG-PDS	9	3000	34	207	7/8-14
	HDG-PDS	9	4200	34	290	7/8-14
	SO-PDS	20	3000	76	207	1 5/16-12
	HSO-PDS	20	4200	76	290	1 5/16-12
<b>DYNAMIC LS STEERING PRIORITY</b>						
	DG-PDD	9	3000	34	207	7/8-14
	SO-PDD	20	3000	76	207	1 5/16-12

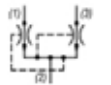
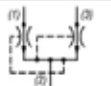
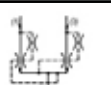



# MECHANICAL FLOW CONTROLS (Con't)

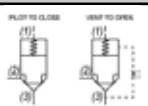

## Velocity Fuses

SCHEMATIC	MODEL	GPM	PSI	LPM	BAR	SIZE
<b>VELOCITY FUSE</b>						
	IM-CVF	6	3500	23	241	7/8/14
	DE-CVF	10	3500	38	241	7/8/14

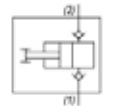
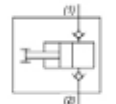
## Flow Divider/Combiners

<b>STANDARD ACCURACY</b>						
	DG-FDA	12	3500	45	241	7/8/14
	SN-FDA	40	3500	151	241	1 5/16-12
<b>HIGH ACCURACY</b>						
	DG-FDH	12	3500	45	241	7/8/14
<b>POSITIVE TRACTION</b>						
	DG-FDT	12	3500	45	241	7/8/14
<b>DIVIDER ONLY</b>						
	DG-FDB	12	3500	45	241	7/8/14
	HDG-FDB	12	4200	45	290	7/8/14

## Logic Elements

<b>STANDARD ACCURACY</b>						
	SL-PLA	40	3500	151	241	1 5/16-12
	HSL-PLA	40	4200	151	290	1 5/16-12
	SL-PLB	40	3500	151	241	1 5/16-12
<b>HIGH ACCURACY</b>						
	SL-PLC	40	3500	151	241	1 5/16-12

## Hand Pumps

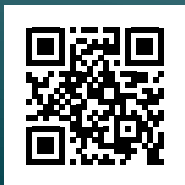
<b>SIDE TO NOSE</b>						
	DE-HPA	0.35	500	5.8	34	7/8/14
	DE-HPB	0.39	3000	6.4	207	7/8/14
	DE-HPE	0.39	3000	6.4	207	7/8/14
<b>NOSE TO SIDE</b>						
	DE-HPC	0.35	500	5.8	34	7/8/14
	DE-HPD	0.39	3000	6.4	207	7/8/14
	DE-HPF	0.39	3000	6.4	207	7/8/14

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