

# Hydraulic & Offshore SUPPLIES

## Hydraulic Symbols

Contact our team *and*  
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BASIC SYMBOLS		SPOOL CONTROLS		ENERGY TRANSFORMATION		ENERGY CONTROL		FLUID TREATMENT	
	PRESSURE OR RETURN LINE		GENERAL SYMBOL		FIXED DISPLACEMENT PUMP		ADJUSTABLE 2-WAY FLOW CONTROL WITH REVERSE FLOW CHECK		DIRECT ACTING RELIEF VALVE
	PILOT LINE		PUSH KNOB		SINGLE-ACTING HAND PUMP		ADJUSTABLE 3-WAY FLOW CONTROL WITH REVERSE FLOW CHECK		PILOT OPERATED RELIEF VALVE
	TWO OR MORE FUNCTIONS IN ONE UNIT		PUSH-PULL KNOB		DOUBLE ACTING HAND PUMP		ADJUSTABLE 3-WAY FLOW CONTROL		SEQUENCE VALVE
	FLEXIBLE HOSE		LEVER		FIXED DISPLACEMENT REVERSIBLE MOTOR WITHOUT DRAIN		FLOW DIVIDER		LEAK-FREE SEQUENCE VALVE WITH EXTERNAL DRAIN
	UNION		SINGLE ACTING PEDAL		FIXED DISPLACEMENT REVERSIBLE PUMP WITH DRAIN		SPOOL TYPE FLOW DIVIDER		RELIEF / UNLOADING VALVE WITH EXTERNAL HYDRAULIC PILOT AND INTERNAL DRAIN
	CROSS		DOUBLE ACTING PEDAL		FIXED DISPLACEMENT REVERSIBLE MOTOR WITH DRAIN		ROTARY FLOW DIVIDER		REDUCING VALVE
	CLOSED CONNECTION		PLUNGER		ROTARY ACTUATOR		LOWERING VALVE WITH REVERSE FLOW CHECK		ELECTRICAL UNLOADING VALVE
	DIRECTION OF MOVEMENT		PLUNGER WITH STROKE LIMITATION		SINGLE ACTING CYLINDER		THROTTLE WITH REVERSE FLOW CHECK		ELECTRICAL PROPORTIONAL RELIEF VALVE
	DIRECTION OF ROTATION		SPRING		DOUBLE ACTING CYLINDER		PILOT OPERATED CHECK VALVE WITHOUT DRAIN		OVER CENTRE VALVE
	REGULATION POSSIBLE		ROLLER		DOUBLE ACTING CYLINDER WITH VARIABLE DAMPING AT ONE END		PILOT OPERATED CHECK VALVE WITH DRAIN		SERIES DIRECTIONAL CONTROL VALVE
	ELECTRIC		LEVER WITH ROLLER		DOUBLE ACTING CYLINDER WITH VARIABLE DAMPING AT BOTH ENDS		CHECK VALVE WITH SPRING		SERIES DIRECTIONAL CONTROL VALVE WITH NEGATIVE OVERLAP AND VALVES IN SPOOL
	SOLENOIDS WORKING IN OPPOSITE DIRECTIONS		SINGLE SOLENOID		DOUBLE ACTING TELESCOPIC CYLINDER		SHUTTLE VALVE		PARALLEL DIRECTIONAL CONTROL VALVE
	DIRECTION OF ROTATION LOOKING AT SHAFT		PUSH/FULL SOLENOID		SINGLE ACTING TELESCOPIC CYLINDER		LOGIC ELEMENT		PARALLEL DIRECTIONAL CONTROL VALVE FOR USE WITH LS PUMPS
	PNEUMATIC		DIRECT PILOT OPERATED		COUPLING		PRIORITY VALVE		PARALLEL DIRECTIONAL CONTROL VALVE FOR USE WITH LS PUMPS WITH FLOW CONTROL FUNCTION
	HYDRAULIC		PNEUMATIC / HYDRAULIC OPERATED		INTERNAL PILOT		STEERING UNITS OPEN CENTRE    CLOSED CENTRE    CLOSED CENTRE WITH LS (OR USE WITH PRIORITY VALVE)		PRESSURE INDICATOR
	TEST POINT		ELECTRIC MOTOR		EXTERNAL PILOT		ACCUMULATOR WITH GAS PRE-CHARGE		PRESSURE TRANSDUCER
	SPRING		INTERMEDIATE POSITION						PRESSURE GAUGE
	THROTTLE		PROPORTIONAL SPOOL						DIFFERENTIAL PRESSURE GAUGE
	PLUGGED PORT		COUPLING						FLUID LEVEL GAUGE
	ROTARY UNION		COUPLING						FLUID LEVEL TRANSDUCER
	DETENT		COUPLING						THERMOMETER
	RETURN ABOVE/BELOW FLUID LEVEL		COUPLING						FLOW INDICATOR
	CHECK VALVE		COUPLING						FLOW METER
	SHUT-OFF VALVE		COUPLING						TACHOMETER
			COUPLING						TORQUE METER
			COUPLING						PRESSURE SWITCH
			COUPLING						MICRO SWITCH

## MEASURING INSTRUMENTS AND INDICATORS

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