

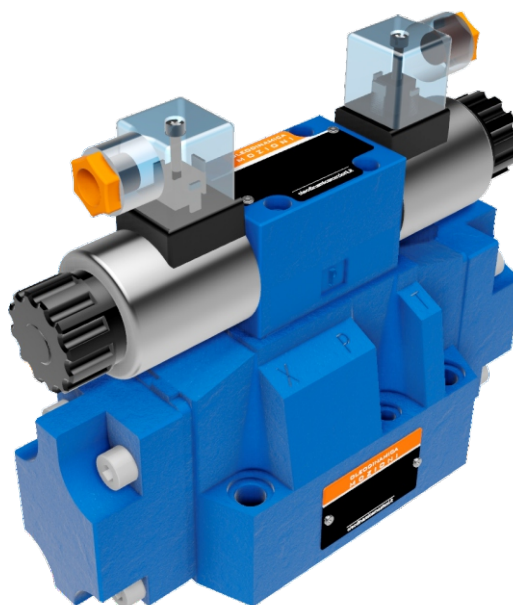


**DISTRIBUTORI
OLEODINAMICI**

WEH

**SOLENOID PILOT OPERATED
DIRECTIONAL CONTROL VALVES**

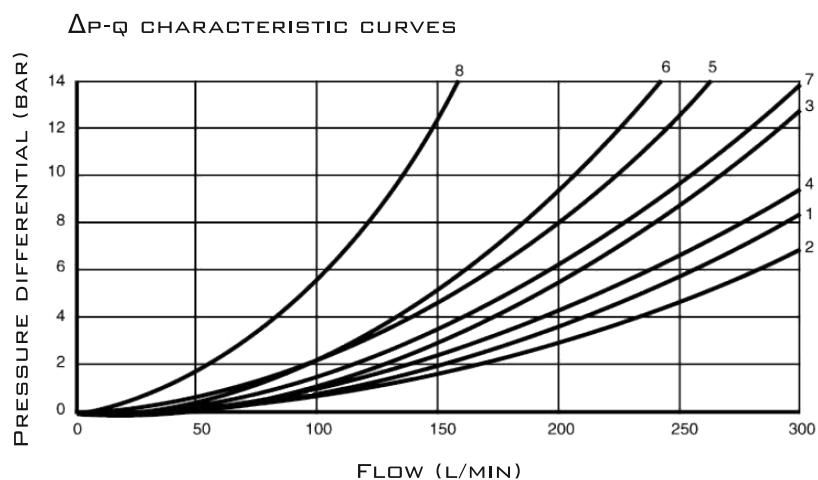
WEH SERIES ARE SOLENOID PILOT OPERATED
SPOOL TYPE VALVES.
THIS SERIES ARE USED TO CONTROL THE
START, STOP AND DIRECTION OF FLOW.



TECHNICAL DATA

SIZE		16	25	32
MAX. FLOW RATE (L/MIN)		300	650	1100
OPERATING PRESSURE (MPA)	A, B, P PORTS	35		
	T PORT	16		
MIN. PILOT PRESSURE (MPA)		0.45 – 1.3	0.45 – 1	0.45 – 1
WEIGHT (KG)		9.5	18	38.5
VALVE BODY (MATERIAL)		CASTING PHOSPHATING SURFACE		

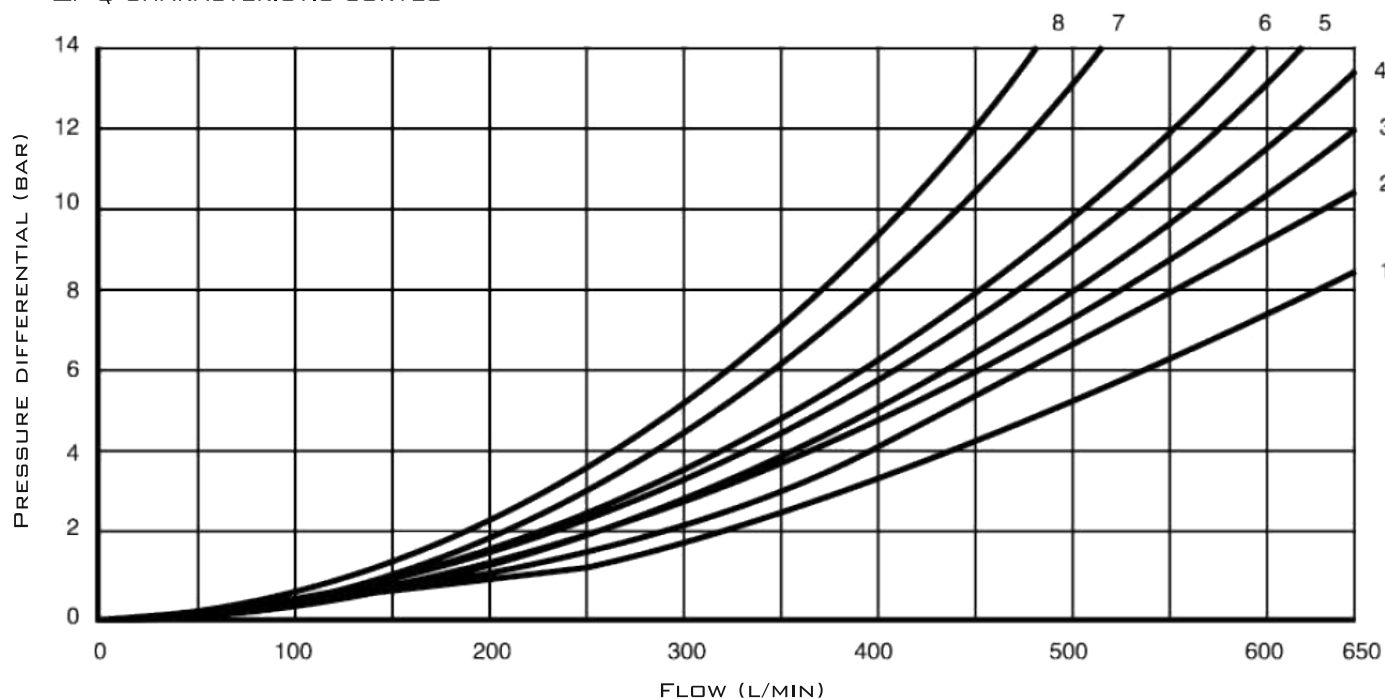
CHARACTERISTIC CURVES 4WEH16...



SPOOL SYMBOL	FLOW DIRECTION				
	P – A	P – B	A – T	B – T	P – T
E, D, Y	1	1	1	3	–
F	2	2	3	2	–
G, T	5	1	3	7	6
H, C, Q, V, Z	2	2	3	3	–
J, K, L	1	1	3	3	–
M, W	2	2	4	3	–
R	2	2	4	–	–
U	1	1	4	7	–
S	4	4	4	–	8

CHARACTERISTIC CURVES 4WEH25...

$\Delta P-Q$ CHARACTERISTIC CURVES



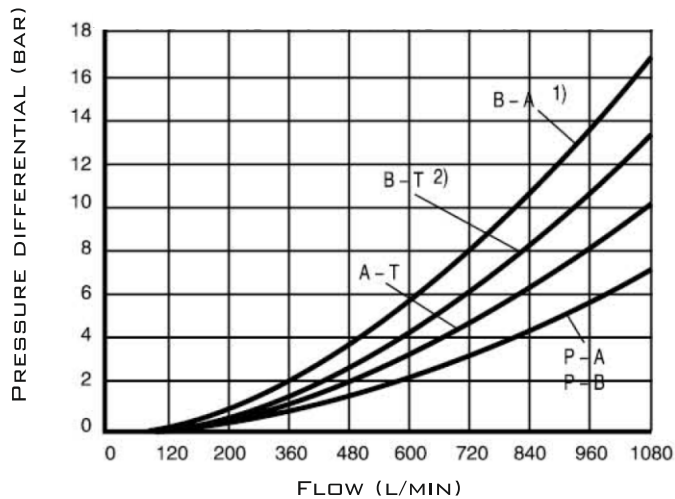
7 CURVE – SPOOL SYMBOL “G” IN CENTRAL POSITION $P \rightarrow T$;

8 CURVE – SPOOL SYMBOL “T” IN CENTRAL POSITION $P \rightarrow T$.

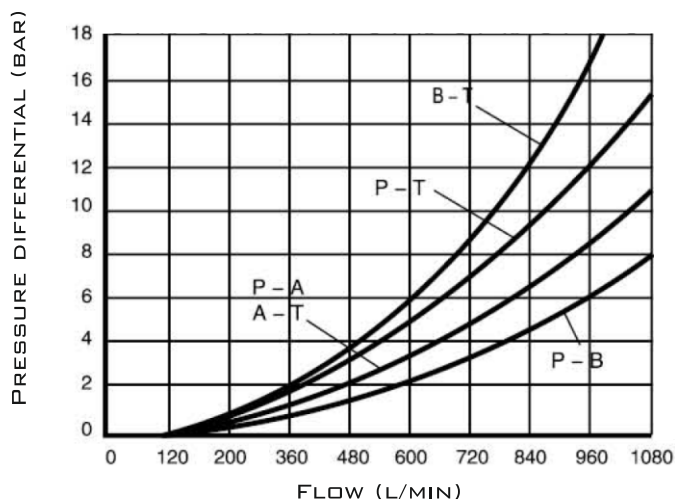
SPOOL SYMBOL	FLOW DIRECTION			
	P – A	P – B	A – T	B – T
E	1	1	1	3
F	1	4	3	3
G	3	1	2	4
H	4	4	3	4
J, Q	2	2	3	5
L	2	2	3	3
M	4	4	1	4
P	4	1	1	5
R	2	1	1	–
T	3	1	2	4
U	4	1	1	6
V	2	4	3	6
W	1	1	1	3

CHARACTERISTIC CURVES 4WEH32...

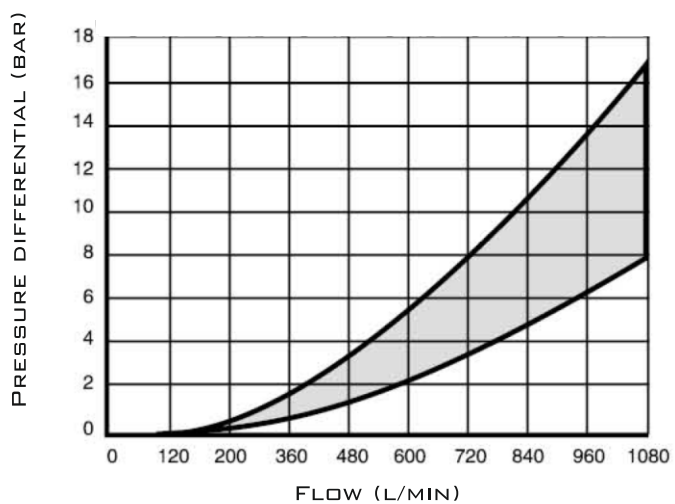
ΔP -Q CHARACTERISTIC CURVES – SPOOL TYPE “E”, “R”, “W”



ΔP -Q CHARACTERISTIC CURVES – SPOOL TYPE “G”, “T”



ΔP -Q CHARACTERISTIC CURVES – ALL SPOOL TYPES

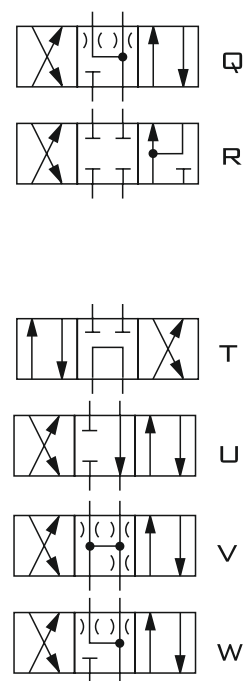
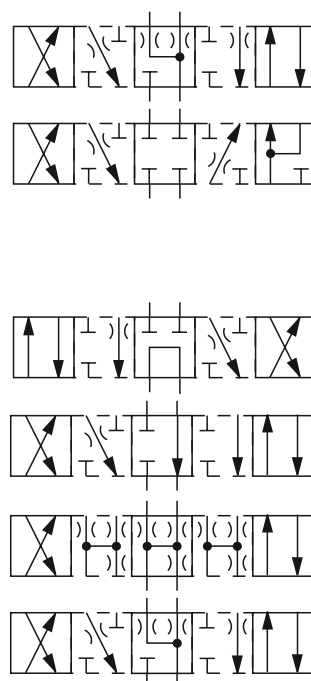
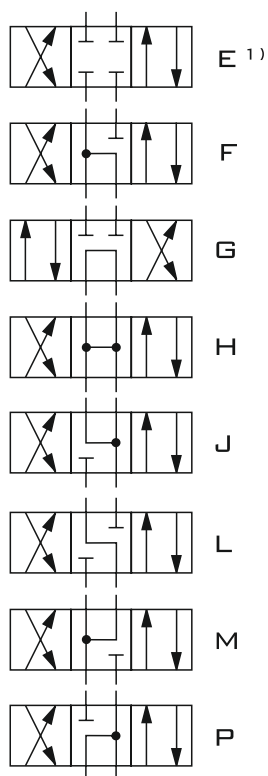
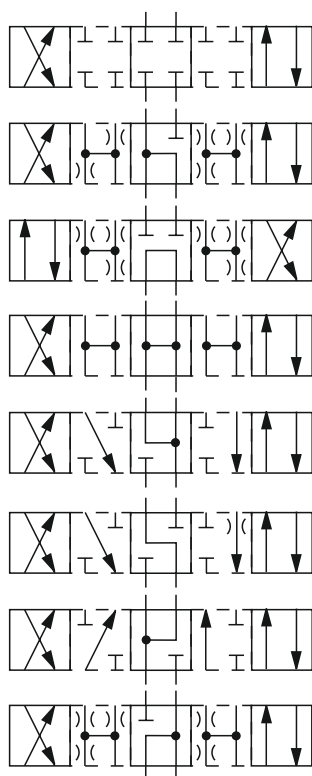
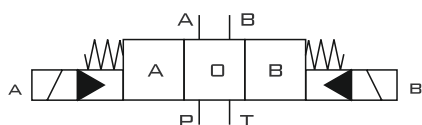


2-POSITION VALVES



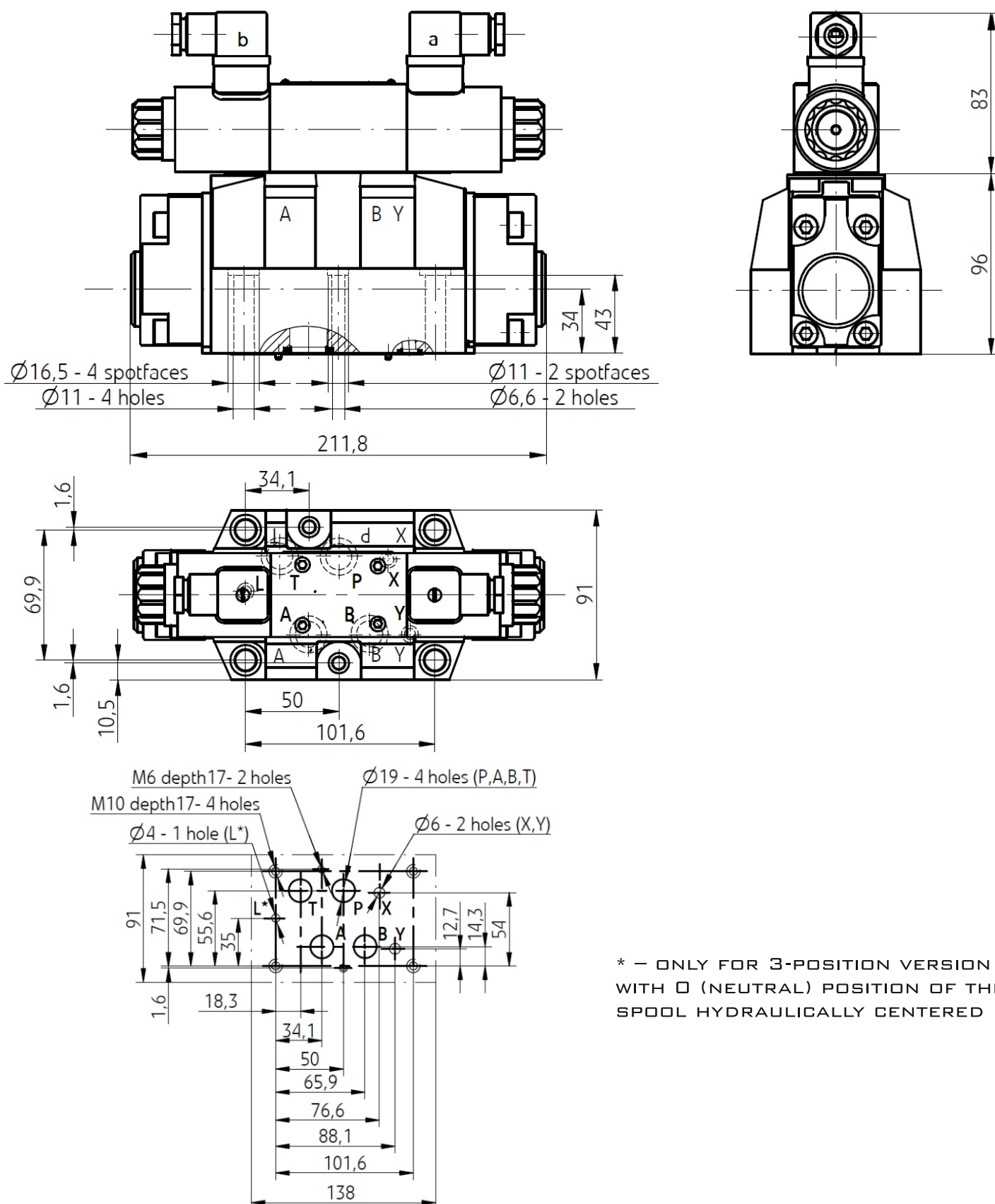
SPool SYMBOLS

3-POSITION VALVES

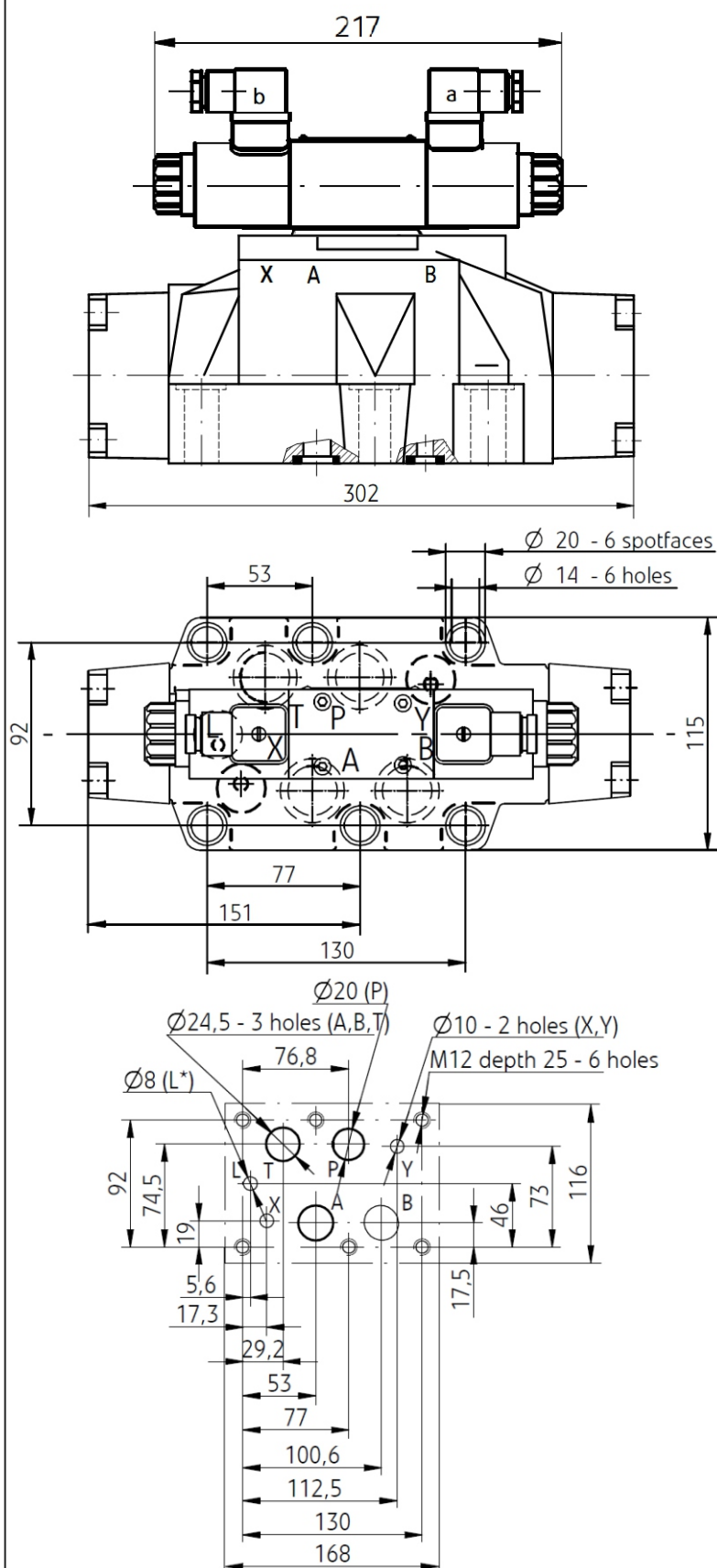


1) EXAMPLE: SYMBOL E WITH ACTUATING SIDE "A" = ORDERING CODE ..EA..

SUBPLATE INSTALLATION DIMENSIONS 4WEH16...

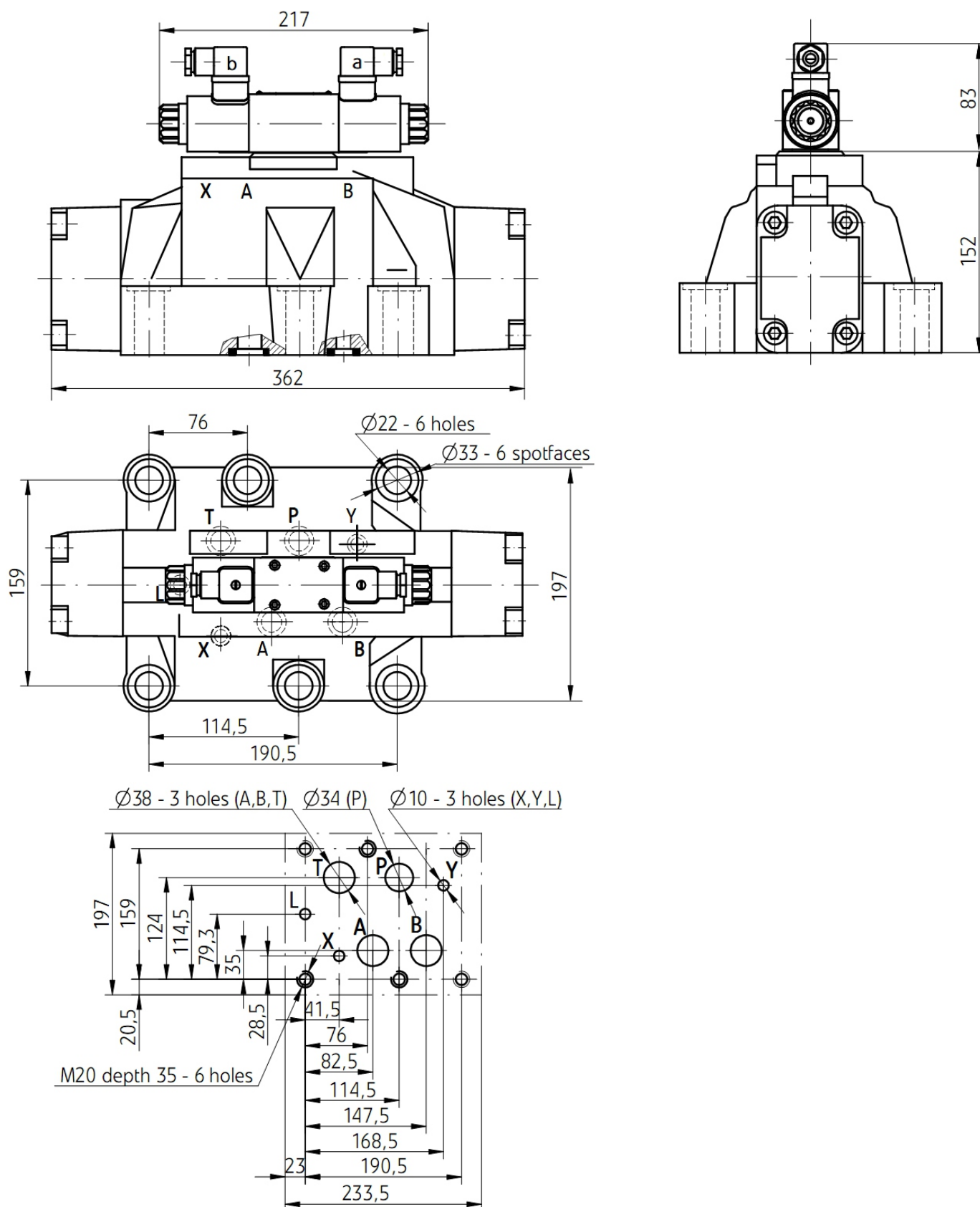


SUBPLATE INSTALLATION DIMENSIONS 4WEH25...

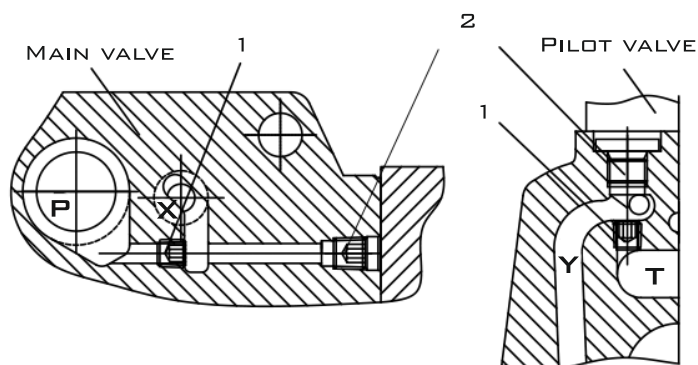


* - ONLY FOR 3-POSITION VERSION
WITH 0 (NEUTRAL) POSITION OF THE
SPOOL HYDRAULICALLY CENTERED

SUBPLATE INSTALLATION DIMENSIONS 4WEH32...

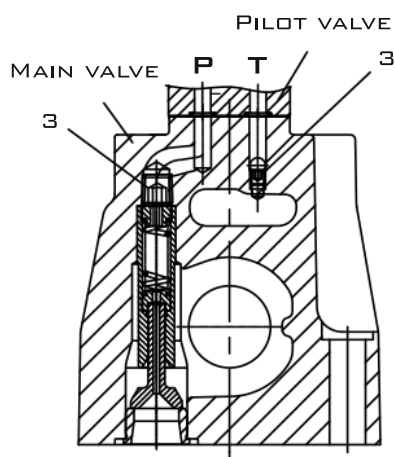


PILOT FLUID SUPPLY



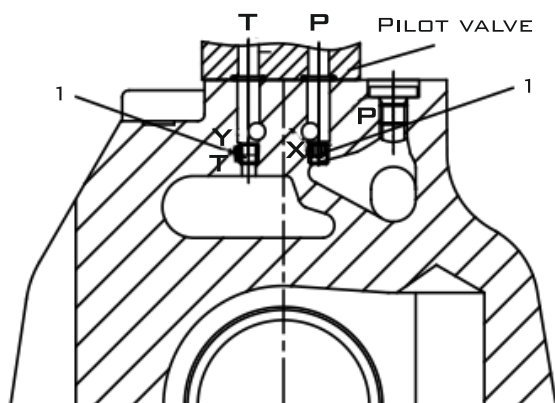
4WEH16

1. CONVERSION BETWEEN INTERNAL SUPPLY AND EXTERNAL SUPPLY:
DISMOUNTING PLUG SCREW (2) FROM P CHANNEL ON THE SIDESURFACE OF MAIN VALVES AND INSTALLING M6 BOLT (1) IS INTERNAL SUPPLY. DISMOUNTING M6 PLUG BOLT (1) IS INTERNAL SUPPLY.
2. CONVERSION BETWEEN INTERNAL DRAIN AND EXTERNAL DRAIN:
DISMOUNTING PLUG SCREW (2) FROM T HOLE ON THE TOP OF MAIN VALVES AND INSTALLING M6 PLUG BOLT (1) IS INTERNAL DRAIN. DISMOUNTING M6 BOLT (1) IS EXTERNAL DRAIN.



4WEH25

1. CONVERSION BETWEEN INTERNAL SUPPLY AND EXTERNAL SUPPLY:
P CHANNEL ON THE TOP OF MAIN VALVE BODIES WITH M6 BOLT (3) IS EXTERNAL SUPPLY AND WITH M6 BOLT (3) DISMOUNTED IS INTERNAL SUPPLY.
2. CONVERSION BETWEEN INTERNAL DRAIN AND EXTERNAL DRAIN:
DISMOUNTING PLUG BOLT (3) FROM T HOLE ON THE TOP OF MAIN VALVES AND INSTALLING M6 PLUG BOLT (1) IS INTERNAL DRAIN. DISMOUNTING M6 BOLT (1) IS EXTERNAL DRAIN.



4WEH32

1. CONVERSION BETWEEN INTERNAL SUPPLY AND EXTERNAL SUPPLY:
DISMOUNTING PLUG SCREW (1) FROM P HOLE ON THE UNDERSURFACE OF MAIN VALVES AND INSTALLING M6 BOLT (1) IS INTERNAL SUPPLY. DISMOUNTING M6 PLUG BOLT (1) IS INTERNAL SUPPLY.
2. CONVERSION BETWEEN INTERNAL DRAIN AND EXTERNAL DRAIN:
DISMOUNTING PLUG SCREW (1) FROM T HOLE ON THE TOP OF MAIN VALVES AND INSTALLING M6 PLUG BOLT (1) IS INTERNAL DRAIN. DISMOUNTING M6 BOLT (1) IS EXTERNAL DRAIN.

ORDER CODE																			
H	4	WEH																	
H=WORKING PRESSURE 35 MPa		4=4-WAY		16=16 SIZE 25=25 SIZE 32=32 SIZE		H=HYDRAULIC RETURN NO CODE=SPRING RETURN		SPOOL TYPE		60=60 SERIES		NO CODE=WITH SPRING RETURN O=WITHOUT SPRING RETURN OF=WITHOUT SPRING RETURN WITH DETENT		E=STANDARD SOLENOID		G12=DC12V G24=DC24V W110R=AC110V W220R=AC220V		N9=WITH CONCEALED HAND EMERGENCY	
NO CODE=EXTERNAL PILOT, EXTERNAL DRAIN E=INTERNAL PILOT, EXTERNAL DRAIN ET=INTERNAL PILOT, INTERNAL DRAIN T=EXTERNAL PILOT, INTERNAL DRAIN																			

NO CODE=MINERAL SUBSTANCE
HYDRAULIC OIL
V=PHOSPHATE EATER
HYDRAULIC OIL

NO CODE=WITHOUT PRESSURE REDUCING VALVE
D3=WITH PRESSURE REDUCING VALVE

NO CODE=WITHOUT PRE-LOAD VALVE
P0.45=WITH 0.45 MPa PRE-LOAD VALVE
P0.6=WITH 0.6 MPa PRE-LOAD VALVE

NO CODE=WITHOUT THROTTLE INSERT
B0.8=THROTTLE 0.8 MM
B1.0=THROTTLE 1.0 MM
B1.2=THROTTLE 1.2 MM

Z5L=SQUARE PLUG WITH LAMP

NO CODE=WITHOUT SHIFTING TIME ADJUSTMENT
S=WITH SHIFTING TIME ADJUSTMENT: INLET FLOW CONTROL
S2=WITH SHIFTING TIME ADJUSTMENT: OUTLET FLOW CONTROL

NO CODE=WITHOUT SHIFTING TIME ADJUSTMENT
S=WITH SHIFTING TIME ADJUSTMENT: INLET FLOW CONTROL
S2=WITH SHIFTING TIME ADJUSTMENT: OUTLET FLOW CONTROL