

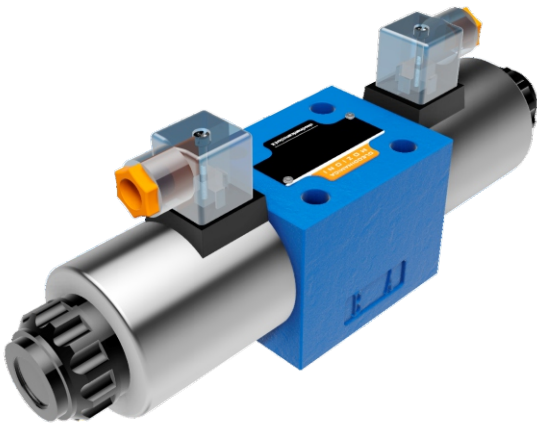


DISTRIBUTORI  
OLEODINAMICI

WE10

SOLENOID OPERATED  
DIRECTIONAL CONTROL VALVES

WE10 SERIES DIRECTIONAL CONTROL VALVES  
ARE SOLENOID OPERATED DIRECTIONAL  
SPOOL VALVES.  
THESE VALVES ARE USED TO THE START, STOP  
AND DIRECTION OF FLOW.

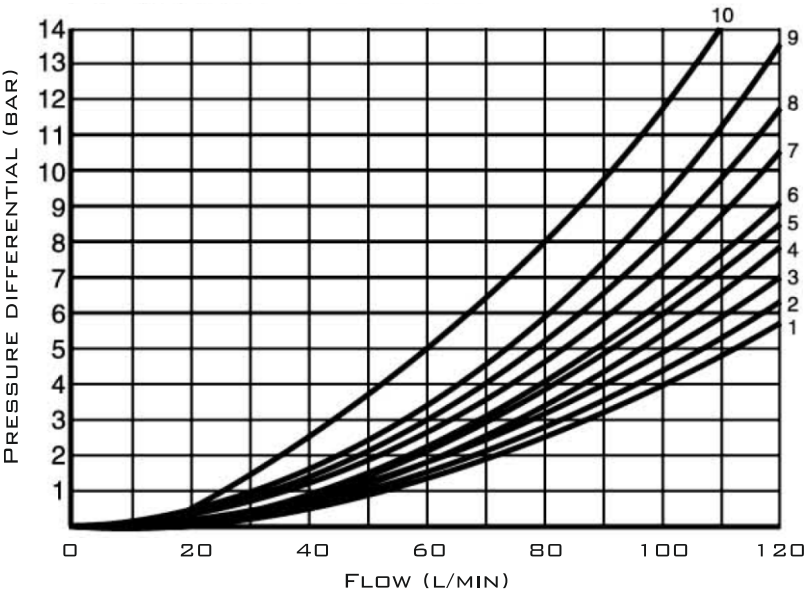


TECHNICAL DATA

|                                    |               |                             |
|------------------------------------|---------------|-----------------------------|
| SIZE                               |               | 10                          |
| MAX. FLOW RATE (L/MIN)             |               | 120                         |
| OPERATING PRESSURE<br>(MPA)        | A, B, P PORTS | 31.5                        |
|                                    | T PORT        | 16                          |
| WEIGHT (KG)<br>WITHOUT/WITH HANDLE | 1 SOLENOID    | 4.6                         |
|                                    | 2 SOLENOIDS   | 6.4                         |
| VALVE BODY (MATERIAL)              |               | CASTING PHOSPHATING SURFACE |

CHARACTERISTIC CURVES

$\Delta P-Q$  CHARACTERISTIC CURVES



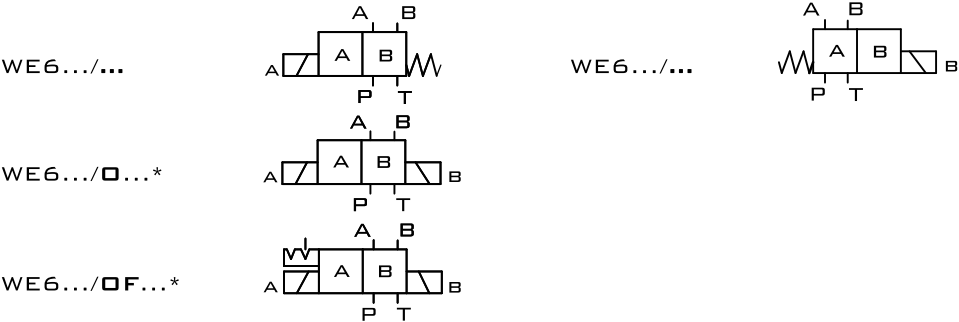
9 CURVE – SPOOL SYMBOL “R” IN SHIFTED POSITION B → A;  
3 CURVE – SPOOL SYMBOL “H” IN CENTRAL POSITION P → T;  
4 CURVE – SPOOL SYMBOL “F” IN CENTRAL POSITION P → A;  
9 CURVE – SPOOL SYMBOL “F” IN CENTRAL POSITION A → T,  
SPOOL SYMBOL “F”, “G” AND “T” IN CENTRAL POSITION  
P → T;

| SPOOL<br>SYMBOL | FLOW DIRECTION |       |       |       |
|-----------------|----------------|-------|-------|-------|
|                 | P – A          | P – B | A – T | B – T |
| A; B            | 3              | 3     | –     | –     |
| C               | 3              | 3     | 4     | 5     |
| D; Y            | 5              | 5     | 6     | 6     |
| E               | 1              | 1     | 4     | 4     |
| F               | 2              | 3     | 7     | 4     |
| G               | 3              | 3     | 6     | 7     |
| H               | 1              | 1     | 6     | 7     |
| J               | 1              | 1     | 3     | 3     |
| L               | 2              | 2     | 3     | 5     |
| M               | 1              | 1     | 4     | 5     |
| P               | 4              | 2     | 5     | 7     |
| Q               | 1              | 2     | 1     | 3     |
| R               | 3              | 6     | 4     | –     |
| T               | 3              | 3     | 6     | 7     |
| U, V            | 2              | 2     | 3     | 3     |
| W               | 2              | 2     | 4     | 5     |

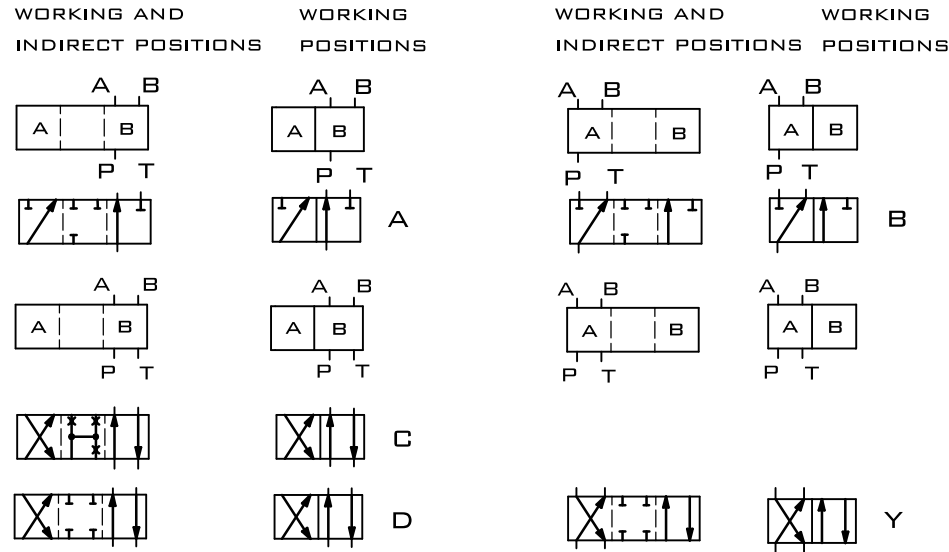
5, 8, 10 CURVES – SPOOL SYMBOL “P” IN  
CENTRAL POSITION P → B, B → T AND P → T.

SCHEMES

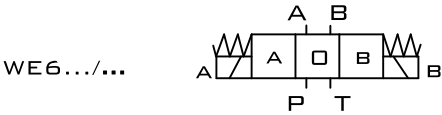
SCHEMES OF 2-POSITION DIRECTIONAL SPOOL VALVES  
VERSIONS WITH POSITIONS A, B



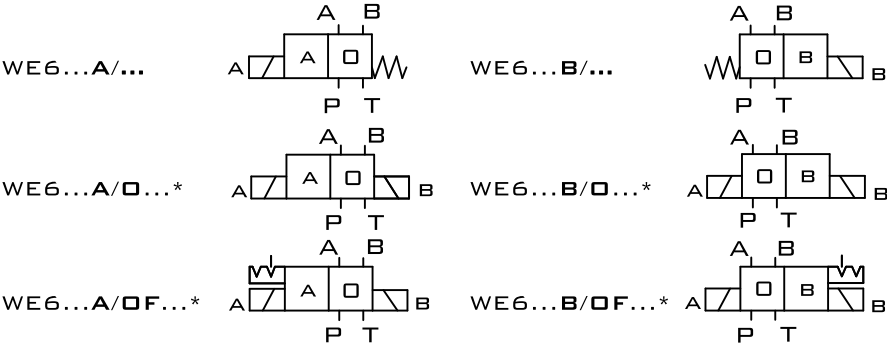
\* – VERSIONS AVAILABLE ONLY FOR SPOOL SCHEMES: A, C, D



SCHEMES OF 3-POSITION  
DIRECTIONAL SPOOL VALVES



SCHEMES OF 2-POSITION DIRECTIONAL SPOOL VALVES  
VERSIONS WITH POSITIONS A, O    VERSIONS WITH POSITIONS O, B



\* – VERSIONS AVAILABLE ONLY FOR SPOOL SCHEMES: E, G, H, J, E, G, H, J

SEE ALSO:  
WE6, WEH



DISTRIBUTORI  
OLEODINAMICI

WE10

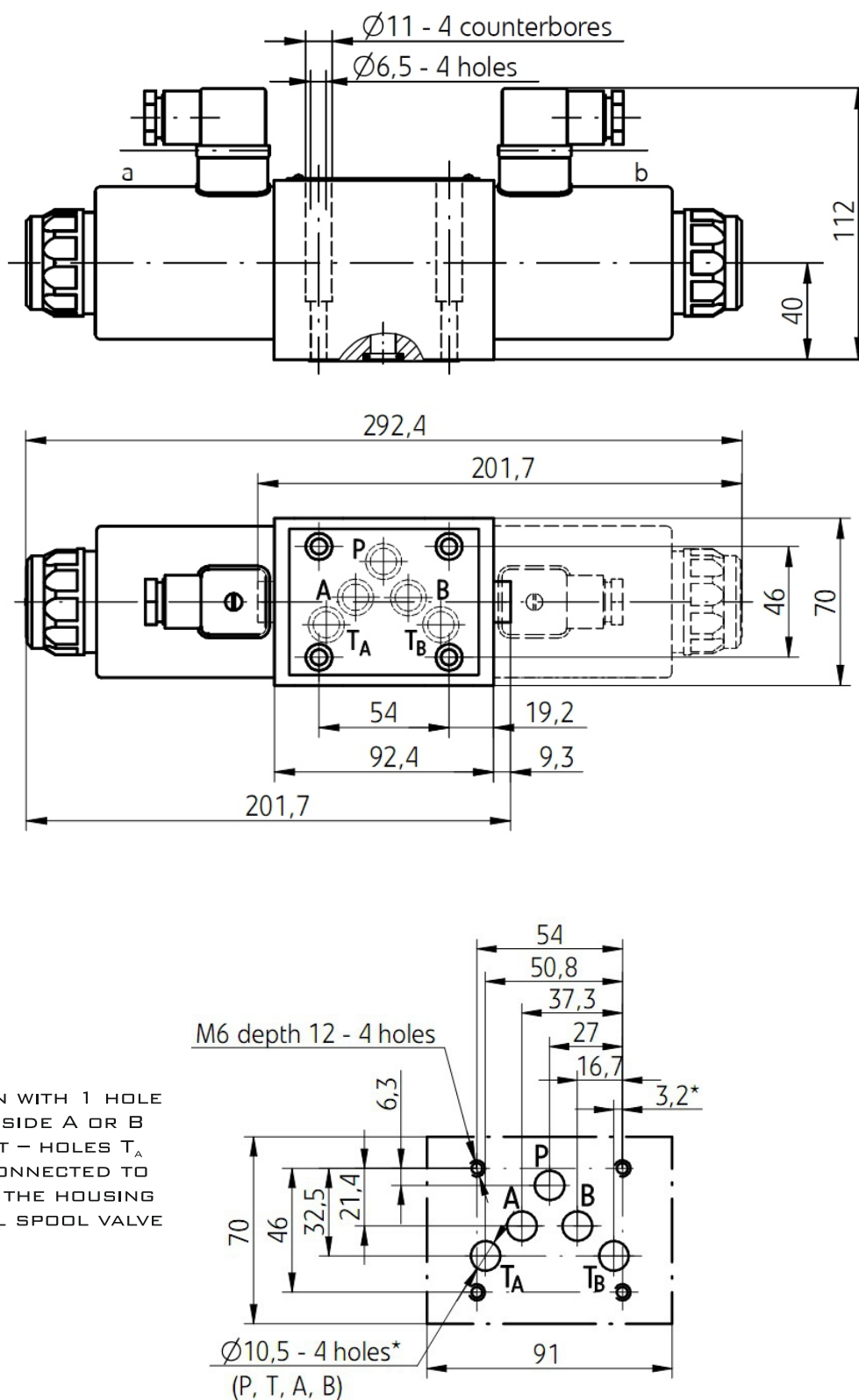
SOLENOID OPERATED  
DIRECTIONAL CONTROL VALVES

SCHEMES

HYDRAULIC SCHEMES OF SPOOLS

| WORKING AND<br>INDIRECT POSITIONS | WORKING<br>POSITIONS | WORKING AND<br>INDIRECT POSITIONS | WORKING<br>POSITIONS | WORKING AND<br>INDIRECT POSITIONS | WORKING<br>POSITIONS |
|-----------------------------------|----------------------|-----------------------------------|----------------------|-----------------------------------|----------------------|
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|                                   |                      |                                   |                      |                                   |                      |

## SUBPLATE INSTALLATION DIMENSIONS



\* - CONNECTION WITH 1 HOLE  
T FROM PORT SIDE A OR B  
IS SUFFICIENT - HOLES  $T_A$   
AND  $T_B$  ARE CONNECTED TO  
THE PORT T IN THE HOUSING  
OF DIRECTIONAL SPOOL VALVE

|                                                                                                                                                    |                              |                                                 |  |  |    |    |  |  |  |                                                                                                         |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------|--|--|----|----|--|--|--|---------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
|                                                                     | DISTRIBUTORI<br>OLEODINAMICI | WE10                                            |  |  |    |    |  |  |  |                                                                                                         |  |  |  |  |  |  |
|                                                                                                                                                    |                              | SOLENOID OPERATED<br>DIRECTIONAL CONTROL VALVES |  |  |    |    |  |  |  |                                                                                                         |  |  |  |  |  |  |
| ORDER CODE                                                                                                                                         |                              |                                                 |  |  |    |    |  |  |  |                                                                                                         |  |  |  |  |  |  |
| <table><tr><td></td><td>WE</td><td>10</td><td></td><td></td><td></td><td>E</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> |                              |                                                 |  |  | WE | 10 |  |  |  | E                                                                                                       |  |  |  |  |  |  |
|                                                                                                                                                    | WE                           | 10                                              |  |  |    | E  |  |  |  |                                                                                                         |  |  |  |  |  |  |
| 3=3-WAY<br>4=4-WAY                                                                                                                                 |                              |                                                 |  |  |    |    |  |  |  | NO CODE=NBR SEALS<br>V=FKM SEALS                                                                        |  |  |  |  |  |  |
| 10=10 SIZE                                                                                                                                         |                              |                                                 |  |  |    |    |  |  |  | Z5L=SQUIRE PLUGS WITH LAMP                                                                              |  |  |  |  |  |  |
| SPOOL TYPE                                                                                                                                         |                              |                                                 |  |  |    |    |  |  |  | NO CODE=WITHOUT THROTTLE INSERT<br>B0.8=THROTTLE 0.8 MM<br>B1.0=THROTTLE 1.0 MM<br>B1.2=THROTTLE 1.2 MM |  |  |  |  |  |  |
| 3X=30-39 SERIES                                                                                                                                    |                              |                                                 |  |  |    |    |  |  |  | N9=WITH CONCEALED HAND EMERGENCY                                                                        |  |  |  |  |  |  |
| NO CODE=WITH SPRING RETURN<br>O=WITHOUT SPRING RETURN<br>OF=WITHOUT SPRING RETURN<br>WITH DETENT                                                   |                              |                                                 |  |  |    |    |  |  |  | G12=DC12V<br>G24=DC24V<br>W110R=AC110V<br>W220R=AC220V                                                  |  |  |  |  |  |  |
| E=STANDARD SOLENOID                                                                                                                                |                              |                                                 |  |  |    |    |  |  |  |                                                                                                         |  |  |  |  |  |  |