Manufacturers of hydraulic cartridge valves
and electro-hydraulic systems

ENGINEERING DATA

Cavity Data
General Installation Note
Valve Mnemonic Code

SEE DETAIL 'A'

1 5/16-12 UNF-2B

NO BURRS

Detal 'A'

ENGINEERING DATA
<table>
<thead>
<tr>
<th>Section / Description</th>
<th>page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAVITY DATA</td>
<td>ED2</td>
</tr>
<tr>
<td>VALVE MNEMONIC CODE</td>
<td>ED35</td>
</tr>
</tbody>
</table>
### THREAD CAVITIES

<table>
<thead>
<tr>
<th>SERIES</th>
<th>SIZE</th>
<th>THREAD SIZE</th>
<th>TOOLS KIT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINI 2W</td>
<td>7</td>
<td>5/8-18 UNF 2B</td>
<td>40500003</td>
<td>ED3</td>
</tr>
<tr>
<td>MINI 3W</td>
<td>7</td>
<td>5/8-18 UNF 2B</td>
<td>40500004</td>
<td>ED4</td>
</tr>
<tr>
<td>MINI 4W</td>
<td>7</td>
<td>5/8-18 UNF 2B</td>
<td>40500006</td>
<td>ED5</td>
</tr>
<tr>
<td>POWER 2W</td>
<td>8</td>
<td>3/4-16 UNF 2B</td>
<td>40500005</td>
<td>ED6</td>
</tr>
<tr>
<td>POWER 3W</td>
<td>8</td>
<td>3/4-16 UNF 2B</td>
<td>40500024</td>
<td>ED7</td>
</tr>
<tr>
<td>POWER 4W</td>
<td>8</td>
<td>3/4-16 UNF 2B</td>
<td>40500029</td>
<td>ED8</td>
</tr>
<tr>
<td>DELTA 2W</td>
<td>10</td>
<td>7/8-14 UNF 2B</td>
<td>40500000</td>
<td>ED9</td>
</tr>
<tr>
<td>DELTA 2W SPECIAL</td>
<td>10</td>
<td>7/8-14 UNF 2B</td>
<td>40500028</td>
<td>ED10</td>
</tr>
<tr>
<td>DELTA 3W</td>
<td>10</td>
<td>7/8-14 UNF 2B</td>
<td>40500001</td>
<td>ED11</td>
</tr>
<tr>
<td>DELTA 4W</td>
<td>10</td>
<td>7/8-14 UNF 2B</td>
<td>40500002</td>
<td>ED12</td>
</tr>
<tr>
<td>TECNORD 2W</td>
<td>12</td>
<td>1 1/16-12 UNF 2B</td>
<td>40500032</td>
<td>ED13</td>
</tr>
<tr>
<td>TECNORD 3W SHORT</td>
<td>12</td>
<td>1 1/16-12 UNF 2B</td>
<td>40500033</td>
<td>ED14</td>
</tr>
<tr>
<td>TECNORD 3W</td>
<td>12</td>
<td>1 1/16-12 UNF 2B</td>
<td>40500034</td>
<td>ED15</td>
</tr>
<tr>
<td>TECNORD 4W</td>
<td>12</td>
<td>1 1/16-12 UNF 2B</td>
<td>40500035</td>
<td>ED16</td>
</tr>
<tr>
<td>TECNORD 5W SHORT</td>
<td>12</td>
<td>1 1/16-12 UNF 2B</td>
<td>40500037</td>
<td>ED17</td>
</tr>
<tr>
<td>SUPER 2W</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500017</td>
<td>ED18</td>
</tr>
<tr>
<td>SUPER 3W SHORT</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500021</td>
<td>ED19</td>
</tr>
<tr>
<td>SUPER 3W</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500018</td>
<td>ED20</td>
</tr>
<tr>
<td>SUPER 4W</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500019</td>
<td>ED21</td>
</tr>
<tr>
<td>SUPER 5W SHORT</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500020</td>
<td>ED22</td>
</tr>
<tr>
<td>SUPER 5W</td>
<td>16</td>
<td>1 5/16-12 UNF 2B</td>
<td>40500038</td>
<td>ED23</td>
</tr>
<tr>
<td>QS SPECIAL 3W</td>
<td>10</td>
<td>M20 X 1.5-H6</td>
<td>40500012</td>
<td>ED24</td>
</tr>
<tr>
<td>T031 3W</td>
<td>-</td>
<td>G 7/8&quot;</td>
<td>K-T031</td>
<td>ED25</td>
</tr>
<tr>
<td>T042 4W</td>
<td>-</td>
<td>7/8-14 UNF 2B</td>
<td>K-T042</td>
<td>ED26</td>
</tr>
<tr>
<td>T308 3W</td>
<td>-</td>
<td>7/8-14 UNF 2B</td>
<td>K-T308</td>
<td>ED27</td>
</tr>
</tbody>
</table>

### FLANGED SLIP-IN CAVITIES

<table>
<thead>
<tr>
<th>SERIES</th>
<th>SIZE</th>
<th>FLANGE THREADS</th>
<th>TOOLS KIT</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>T043 3W</td>
<td>D13</td>
<td>M4 (X2)</td>
<td>K-T043</td>
<td>ED28</td>
</tr>
<tr>
<td>T056 2W</td>
<td>D16</td>
<td>M6 (x2)</td>
<td>K-T056</td>
<td>ED29</td>
</tr>
<tr>
<td>T057 3W</td>
<td>D16</td>
<td>M6 (x2)</td>
<td>K-T057</td>
<td>ED30</td>
</tr>
<tr>
<td>T058 4W</td>
<td>D16</td>
<td>M6 (x2)</td>
<td>K-T058</td>
<td>ED31</td>
</tr>
<tr>
<td>T059 3W</td>
<td>D17</td>
<td>M6 (x2)</td>
<td>K-T059</td>
<td>ED32</td>
</tr>
<tr>
<td>T222 3W</td>
<td>D16.5</td>
<td>M4 (X2)</td>
<td>K-T222</td>
<td>ED33</td>
</tr>
<tr>
<td>T250 3W</td>
<td>D9</td>
<td>M4 (X2)</td>
<td>K-T250</td>
<td>ED34</td>
</tr>
</tbody>
</table>

WARNING: The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
MINI 2W 7 SIZE, 5/8-18 THREAD "MINI" SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500003.
2. ALL MACHINED SURFACES TO BE \( \frac{7}{16} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
4. PORT ZONE IS Ø.213 MAXIMUM AT PORT #1 ONLY FOR BHIGH PRESSURE SERIES MINI VALVES (HA-***-*).
MINI 3W  7 SIZE, 5/8-18 THREAD "MINI" SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500004.
2. ALL MACHINED SURFACES TO BE $32\sqrt{\text{ }}$ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
4. PORT ZONE IS Ø.213 MAXIMUM AT PORT #1 ONLY FOR BHIGH PRESSURE SERIES MINI VALVES (HA-***-**).
MINI 4W  7 SIZE, 5/8-18 THREAD “MINI” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500006.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

POWER 2 WAY  8 SIZE, 3/4-16 THREAD “POWER” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500005.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

POWER 3 WAY  8 SIZE, 3/4-16 THREAD “POWER” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500024.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500029.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DELTA 2 WAY 10 SIZE, 7/8-14 THREAD “DELTA” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500000.
2. ALL MACHINED SURFACES TO BE \( \frac{32}{\sqrt{ } \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

DELTA 2 WAY SPECIAL  10 SIZE, 7/8-14 THREAD SPECIAL “DELTA” SERIES

NOTES:

1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500028.
2. ALL MACHINED SURFACES TO BE $\frac{32}{32}$ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500001.
2. ALL MACHINED SURFACES TO BE $\frac{32}{32}$ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500002.
2. ALL MACHINED SURFACES TO BE \( \leq 32 \) \( \sqrt{ } \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
TECNORD 2 WAY  12 SIZE, 1 1/16-12 THREAD “TECNORD” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500032.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
TECNORD 3 WAY SHORT
12 SIZE, 1 1/16-12 THREAD “TECNORD” SERIES

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500033.
2. ALL MACHINED SURFACES TO BE \( \frac{32}{\sqrt{4}} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

TECNORD 3 WAY 12 SIZE, 1 1/16-12 THREAD “TECNORD” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500034.
2. ALL MACHINED SURFACES TO BE \( \sqrt{32} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

TECNORD 4 WAY  12 SIZE, 1 1/16-12 THREAD “TECNORD” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500035.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
NOTES:

1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500037.
2. ALL MACHINED SURFACES TO BE \( \frac{32}{\sqrt{2}} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
NOTES:

1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500017.
2. ALL MACHINED SURFACES TO BE 32\(\sqrt{}\) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500021.
2. ALL MACHINED SURFACES TO BE 32√ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
NOTES:

1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500018.
2. ALL MACHINED SURFACES TO BE \( \frac{32}{\sqrt{}} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
SUPER 4 WAY  16 SIZE, 1 5/16-12 THREAD “SUPER” SERIES

NOTES:
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500019.
2. ALL MACHINED SURFACES TO BE $\frac{32}{\sqrt{10}}$ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

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

TECNORD
Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com
### SUPER 5 WAY SHORT  
**16 SIZE, 1 5/16-12 THREAD "SUPER" SERIES**

**NOTES:**

1. **CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500020.**
2. **ALL MACHINED SURFACES TO BE \( \frac{32}{\sqrt{2}} \) FINISH OR BETTER, EXCLUDING THREADS.**
3. **IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.**

**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

**NOTES:**
1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500038.
2. ALL MACHINED SURFACES TO BE \( \frac{32}{32} \) FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.
**NOTES:**

1. CAVITY CAN BE MACHINED WITH DELTA FORM TOOL #40500012.
2. ALL MACHINED SURFACES TO BE $32\sqrt{\varepsilon}$ FINISH OR BETTER, EXCLUDING THREADS.
3. IT IS VERY IMPORTANT THAT VALVE CAVITIES MEET ALL DIMENSIONAL AND QUALITY STANDARDS OF CONCENTRICITY AND PERPENDICULARITY. THREADS MUST BE PERPENDICULAR TO THE SPOTFACE SURFACE. SPOTFACE MUST CLEAN UP TO FULL DIAMETER. IMPROPERLY MACHINED CAVITIES CAN LEAD TO CARTRIDGE MALFUNCTION AND/OR FAILURE FROM DISTORTION.

**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
**WARNING:** the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

N°2 viti M4 fil. utile min. 10mm

N°2 M4 screw min. thread depth 10mm
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

T056
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

N°2 viti M4 fil. utile min. 10mm

N°2 M4 screw min. thread depth 10mm
WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.
**VALVE MNEMONIC CODE**

First letter is the valve series:
- M = MINI (5/8")
- P = POWER (3/4")
- D = DELTA (7/8")
- T = TECNORD (1 1/16")
- S = SUPER (1 5/16")

Second letter is the cavity:
- I = INLINE/UNITIZED
- E = ELECTRONIC PROPORTIONAL
- A = MOTORIZED
- Q = SPECIALS
- H = 4000/5000 PSI RATED

<table>
<thead>
<tr>
<th></th>
<th>MINI</th>
<th>POWER</th>
<th>DELTA</th>
<th>TECNORD</th>
<th>SUPER</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 WAY</td>
<td>A</td>
<td>B</td>
<td>E</td>
<td>T</td>
<td>J</td>
</tr>
<tr>
<td>3 WAY</td>
<td>C</td>
<td>P</td>
<td>F</td>
<td>U</td>
<td>K</td>
</tr>
<tr>
<td>3 Way Short</td>
<td></td>
<td></td>
<td></td>
<td>R</td>
<td>L</td>
</tr>
<tr>
<td>4 WAY</td>
<td>D</td>
<td>Q</td>
<td>G</td>
<td>V</td>
<td>N</td>
</tr>
<tr>
<td>5 Way Short</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>5 Way</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>I</td>
</tr>
</tbody>
</table>

Third letter is the type of valve:
- R = RELIEF
- C = CHECK & LOAD HOLDING
- N = NEEDLE
- P = PRESSURE CONTROLLED
- S = SOLENOID
- M = MANUAL
- F = FLOW CONTROL

Third, fourth, and fifth characters combined describe the valve function. It is these characters that are stamped on the valve. Examples:
- S2A = SOLENOID 2 WAY POPPET
- S3A = SOLENOID 3 WAY SPOOL
- S4A = SOLENOID 4 WAY CRISS SPOOL
- RVA = RELIEF DIRECT ACTING
- MCB = MAN NC DETENT

The sixth and seventh characters cover the o-ring, screen, override, knob and other options. Example:
- 00 = STANDARD DEFAULT CONFIGURATION
- VK = VITON O-RINGS, KNOB ADJUSTMENT
- B3 = BUNA, SCREEN, OVERRIDE NONDETENT

The eighth through eleventh characters describe the solenoid, flow range, or pressure range. Pressure or flow is specified as a range or a particular setting. Example:
- DL12 = DUAL LEAD 12 VDC
- DS24 = DUAL SPADE 24VDC
- HC24 = HIRSCHMANN 24 VDC
- CL11 = CONDUIT LEAD 120VAC
- 0005 = 5 PSI CRACK
- 1500 = 1500 MAX PRESS
- 03.0 = 3 GPM MAX FLOW
- 6-10 = 6 TO 10 G.P.M. FLOW RANGE

The final character is the body port style:
- N = BSP / NPT
- S = SAE

---

**WARNING:** The specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.