checkCVal

Check for correct input values

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Syntax

```
checkCVal(sObject,pID,CVal,varargin)
```

Description

checkCVal(sObject,pID,CVal,varargin) checks the input values and retuens validity of the input values. Note: Middle motor have smaller input value range due to its bracket.

Input Arguments

- sObject - serial port object
- pID - integer
- CVal - integer
- varargin - integer

Function Codes

```
function checkCVal(sObject, pID, CVal, varargin)

    CDiff = getCDiff(sObject,pID);



    % Default: Normal range checking if only 3 arguments

    if nargin == 3

        % Absolute value range (19~1002)

        minVal = 19-CDiff;

        maxVal = 1002-CDiff;
```

```matlab
        %CVal+CDiff = Abs Value

        if (19>(CVal+CDiff) || (CVal+CDiff)>1002)

            error('Value of %d out of operational range!
Range:%d~%d',pID,minVal,maxVal);

        end



    % Special case: Check middle motor specifically due to smaller range (middle
bracket)

    else

        % Absolute value range (105~834)

        minVal = 105-CDiff;

        maxVal = 834-CDiff;

        if (105>(CVal+CDiff) || (CVal+CDiff)>834)

            error('Value of %d out of operational range!
Range:%d~%d',pID,minVal,maxVal);

        end

    end

end
```