

# CUSTOM BLOCK BODY VALVES, CLUSTERS

## Manual or Pneumatically Actuated Custom Barstock Valves and Valve Clusters

Block valves evolved in this industry for a good reason. They transformed what used to be large multiple valve and tubing assemblies into a smaller, compact block valve that reduced process contact surface area, dead legs and hold up volume. Steriflow will custom design valves specifically for your process requirements using our rapid prototype process.

## SPECIFICATIONS AND FEATURES\*

### Available Sizes:

- » Standard Valve: 1/2" - 3" (DN15 - DN80)

### Connection Type:

- » Tri-clamp, Extended Tube End, Custom including Hose Barb

### Materials:

- » Standard: Barstock, ASME SA479 316L (UNS 31603) or EN 10272:2000 GR 1.4435
- » Optional: AL-6XN®, Hastelloy® C-22 and others readily available

### Surface Finish:

- » Wetted Interior:
  - Standard:
    - ASME BPE SF1, 20 Ra  $\mu\text{in}$  (0,5 Ra  $\mu\text{m}$ )
    - ASME BPE SF5, 20 Ra  $\mu\text{in}$  (0,5 Ra  $\mu\text{m}$ ) Electropolish
  - Optional:
    - ASME BPE SF4, 15 Ra  $\mu\text{in}$  (0,4 Ra  $\mu\text{m}$ ) Electropolish. Better finish upon request.
- » Exterior:
  - Standard: 40 Ra  $\mu\text{in}$  (1,0 Ra  $\mu\text{m}$ ) and better upon request

\* See page 6 & 7 for GENERAL FEATURES, GENERAL SPECIFICATIONS regarding features and specifications that apply to all valves



## APPLICATIONS

Multiple Wier Manual on/off or Air Actuated block valves or block valve clusters for diversion of Drug Process, Media Buffers, Clean Utilities for a variety of upstream and downstream requirements

- » Upstream:
  - Bioreactor/Fermenter: For diversion of WFI, growth media, intermediate drug product, clean dry air and gas, clean steam and clean utility fluids
  - Perfusion: Permeate diversion
- » Downstream:
  - For diversion of WFI, buffers, solvent, intermediate and finished drug product and clean utility fluids in the following production area:
    - Separation
    - Filtration
      - buffer exchange
    - Chromatography
      - column input buffer distribution
      - column outlet distribution
    - Fill Finish: low hold-up drug product distribution
- » Buffer and Media Prep:
  - Blocks for diversion control of WFI, buffers and growth media

## RPP SYSTEM (CUSTOM BLOCK BODY VALVES, CLUSTER)

Steriflow Valve will custom design valves specifically for your process requirements using our RPP System (Rapid Prototype Process).

Our program will take your 'pen to paper' design and translate it into a SOLIDWORKS® design. Our software will rapidly transform your tweaks into a solid model for your evaluation and approval. Depending upon complexity, we can usually render a design and SOLID model and send it to you in your desired file format in as quickly as one to two weeks. Contact us at [RPP@richardsind.com](mailto:RPP@richardsind.com).

