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## **Design Hydraforce**

### Chapter 8: Valve

Design The summation of forces shows that  $F_w + F_C = 0$ . Since  $F_w$  points down, it is considered negative.

Therefore, the summation of forces for the man on the chair is  $-F_w + F_C = 0$ . To show that the system is balanced (the chair supports the man), the equation can be written  $F_w = F_C$

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## **Contents**

Valve design is the topic in chapter eight. Basic hydraulic components in spool and poppet valves are described. The springs used in valves, balance of forces and response time are also outlined. The types of solenoid valves available from

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HydraForce are listed in chapter nine. These include a discussion on pilot operated poppet valves, direct acting poppet

## **Chapter 1: Overview - HydraForce**

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HydraForce, Sun,  
Parker .  
Marketreports.biz,  
recently published a



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detailed market  
research study focused  
on the ...

## **Cartridge Market Size, Share & Trends Analysis Report**

HydraForce i-Design  
User's Manual 2-2

Figure 2-1: HydraForce  
i-Design Interfaces The  
header is based on a  
standard Windows  
interface. This section  
of the application holds  
the various menus and  
toolbars needed to

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access the main software functions and tools. The default configuration is arranged in such a way

## **User Manual June 2013 - HydraForce**

Chapter 8: Stormwater Management Design

Examples This chapter presents design

examples for two hypothetical

development sites in the State of New York.

The first site, "Stone

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Hill Estates," is a residential development near Ithaca. The second is a commercial site in Albany. The chapter is divided into five sections, each of which focuses on ...

## **Chapter 8: Stormwater Management Design Examples**

Motion Control Valves :  
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Pilot-Operated, Spool-  
Type: Relief Valves, Bi-  
Directional: Cross-Over  
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Relief Valve: Pressure  
Reducing / Relieving  
Valves: Sequence with  
Pilot and Internal Vent:  
Sequence with Pilot  
and Drain: Sequence  
with External Pilot:  
Sequence, Kick-Down:  
Unloading Pilot

**HydraForce**  
**Hydraulic Pressure**  
**Control Cartridge**

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Welcome to HydraForce. With a unique blend of customized design solutions and superior product performance, we're leading the way in manufacturing the highest quality hydraulic cartridge valves, manifolds and electro-hydraulic controls.

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**Valves, Custom  
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Chapter 9: Internally  
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Electro-Hydraulic  
Proportional Valves  
Manual PV72-20 The  
PV72-20 is a direct  
acting, internally  
compensated, normally  
closed, proportional fl  
ow control. The  
normally open version  
is the PV72-21. The  
valves are virtually  
identical except for the

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metering spool. The difference

## **Chapter 9: Internally Compensated Flow Control - HydraForce**

Chapter 7: Flow Controls - Introductory Concepts ... It is also dependent on the spring force valve design in general, and the geometry of the valve components. Typically, when the flow is at the maximum ... above the maximum

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current required for most HydraForce flow control valves and directional control valves. Chapter 7: Flow Controls ...

## **Chapter 7: Flow Controls - Introductory Concepts**

§8-07 Records. §8-08 Modification. §8-09 Penalties. §8-01 Scope and applicability. This Chapter applies to owners of New York



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City buildings or other premises in the City that are equipped with a cooling tower system. §8-02

Definitions. When used in this Chapter, the following terms mean:

## **CHAPTER 8 COOLING TOWERS §8-01 Scope and applicability.**

Chapter 8

Indirect/Special Waste

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Separators Chapter 11

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604.8.1 Valve Design.

The pressure-reducing valve shall be designed to remain open to

permit uninterrupted water flow in case of valve failure. 604.8.2

Repair and Removal.

## **Chapter 6: Water Supply and Distribution, NYC Plumbing ...**

This chapter describes the installation, plant

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operations, and maintenance of the scotch marine boiler, which is the most common type of boiler in the NCF. This chapter provides insight into many skills that you must develop to be a ... Normally of gate-valve design, fully opened or closed. 7 . Pressure Regulating Valve (PRV). N/A . 8 . Steam Trap.

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HydraForce has seen the need for a reliable, high cycle, high-pressure cartridge valve line, and it is now in full development! The HyPerformance cartridge valve program that will consist of a full offering of our cartridge valves (we hope it will take the market by storm).

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lines of high quality hydraulic cartridge valves for the mobile and industrial equipment markets. We are designing high performance valves to meet virtually any need encountered in machine design for flow rates of .4 to 300 lpm (.1 to 80 gpm). Innovative, Robust Design Our “group technology” approach to product planning,

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design, and manufac-

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areas prone to  
floodings as  
established by Table  
R301.2(1), vents shall  
be located at or above  
the design flood  
elevation established

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in Section R324.1. ...

The valve shall be located within a ventilated space that allows air to enter the valve.

## **Chapter 31: Vents, 2010 Residential Code of NY | UpCodes**

- Design Benefits:  
multifunction valves  
make manifold blocks  
easier to design. If you  
need more details  
shoot me an email.

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About the Author:

Damiano Roberti is an application engineer for HydraForce Hydraulics Ltd., representing the southeast region of Europe. Damiano resides in Modena, Italy.

## **Cartridge Valves Combining Multiple Functions ... - HydraForce**

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Download this article in .PDF format. Cartridge valves. The term cartridge valves commonly refers to pressure, directional, and flow control valves that screw into a threaded cavity. These valves are mostly rated for low flows - 40 gpm or less, although some manufacturers have units that will flow more than 100 gpm.

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**Cartridge Valves  
(Logic Valves ...**

Food-handling equipment and clear-water waste shall discharge through an indirect waste pipe as specified in Sections 802.1.1 through 802.1.8. All health-care related fixtures, devices and equipment shall discharge to the drainage system through an indirect waste pipe by means of an air gap in

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accordance with this chapter and Section 713.3.

## **Chapter 8: Indirect/Special Waste, NYC Plumbing Code 2014**

...

Global Cartridge Valve  
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HydraForce, Sun,  
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