

# Downsized Valve Cutaway Set



Model: 271D

DAC Worldwide's Downsized Valve Cutaway Set (271D), an economical alternative to our standard, full-size cutaways, allow for convenient classroom training in the operation, construction, and maintenance of common industrial valves. The fully-detailed examples of industrial downsized valves give learners a first-hand view into a component that is found in various maintenance applications worldwide.

This basic mechanical valve cutaway includes a total of 10 actual brass and bronze valve components, including:

- Gate Valve
- Globe Valve
- Ball Valve
- Butterfly Valve
- Swing-Check Valve
- Needle Valve
- Safety Relief Valve
- Diaphragm Valve
- Solenoid Valve

Through carefully planned sectioning, the complete internal configuration of each valve is exposed and showcased, allowing for convenient classroom training in the operation, construction, and maintenance of these common pieces of process equipment.

## Enhance Training with Hands-On Cutaway Industrial Components

This Downsized Valve Cutaway Set provides a realistic training introduction to industrial valve components, which will make introductory courses in valve maintenance and operation more productive, realistic, and memorable for learners. The Downsized Valve Assortment components are industrial-grade, mimicking what students might encounter on-the-job.

The cutaway features carefully-planned cutaway areas that are individually mounted, and possess the ability to be removed from the baseplate for convenient classroom use. All of the cutaway's gaskets, seals, and seats are also visible, enhancing students' visual learning. Additionally, the seal features and hardware locations have been retained, allowing use for hands-on training in maintenance.

The equipment used within the trainer is cleaned, primed and painted using a high-endurance urethane coating, providing durability to stand up to frequent use.

Overall, the Valves Assortment Cutaway Downsized carries a total size of 13.5"W x 12"H x 30"L and weighs 110 pounds.

## Expand Training with Additional Mechanical Model Options

The Downsized Valve Cutaway Set is only one of DAC Worldwide's expansive mechanical training cutaways, including the Dissectible Valve Assortment Cutaway ([#270K](#)), the Dissectible Liquid Level Gauge Sample Cutaway ([#272-475](#)), the Dissectible Control Valve - Diaphragm-Type Cutaway ([#255KE](#)), and more!

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## FEATURES & SPECIFICATIONS

- 7-Gauge, powder-coated, formed-steel baseplate with provision for tabletop mounting
- Sectioning of ten (10) representative brass, bronze and steel valves (*Common valve makes and models chosen for industrial training relevancy*)
- Valve types include: gate, globe, ball, butterfly, plug, swing-check, needle, safety relief, diaphragm (Saunders), and solenoid. Primary valve size is 3/4" NPS
- Cleaning and glass beading as necessary
- Mounting of individual valves using pipe nipples and pipe clamps for ease in disassembly or use individually
- Replacement plated hardware where necessary
- All primary functional detail including gaskets, seals, and seats shown
- Provision for mounting on related bench and workstation products
- Packaging for shipment via motor freight

## PRODUCT DIMENSIONS

- **Product Dimensions**  
(L x W x H)

30" x 15 1/2" x 10" (395 x 395 x 255 mm)  
40 lbs. (18 kg)

- **Shipping Dimensions**

(L x W x H)

34" x 16" x 23 1/2" (865 x 405 x 600 mm)

65 lbs. (30 kg)

## **OPTIONS**

- #530-000 - IPT Pipe Trades Training Manual
- #530-001 - IPT Pipe Trades Handbook
- #902V - Mobile Display Stand (Recommended)
- #271-500 - Additional Use/Exercise Guide

**COURSE CONTENT** The courseware, useful in both an instructor-led or self-directed format, includes a textbook and twelve (12) illustrated, hands-on exercises.

### **Exercises include:**

- Introduction to Valve Terminology, Materials, Classes and Ratings, and Abbreviations
- Introduction to Gate Valves
- Introduction to Globe Valves
- Introduction to Check Valves
- Introduction to Butterfly Valves
- Introduction to Ball Valves
- Introduction to Plug Valves
- Introduction to Diaphragm Valves
- Introduction to Over-Pressure Relief Valves
- Introduction to Control Valves

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