



DY Series 1-Piece Ball Valves

Catalog 1001C-A

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aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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Introduction

Parker's DY series 1-piece, stainless steel, low pressure ball valve offers quick, quarter turn shut off capability for chemical, petrochemical, oil & gas, pulp & paper, and instrumentation applications. The DY series ball valve is designed for most of the industrial pipe line. With its blow out resistant stem, standard locking lever handle and NPT, BSPT, BSPP end connections. The DY Series is an excellent, cost effective choice for applications ranging in size from 1/4" to 2", and provides total shut off capability for services up to 69 Bar (1000 PSI).

Features

- Ball valve bodies are machined from CF-8M stainless steel castings, equivalent of 316 stainless steel which is suited for corrosive environments.
- Highly inert PTFE seats and seals provide resistance to chemical corrosion.
- For chemical and industrial applications.
- Blow out proof stem design, 316 stainless ball and a special design handle enable increased turn and leverage for ease of opening and closing.
- Positive handle stops, with locking device.
- 100% factory tested.

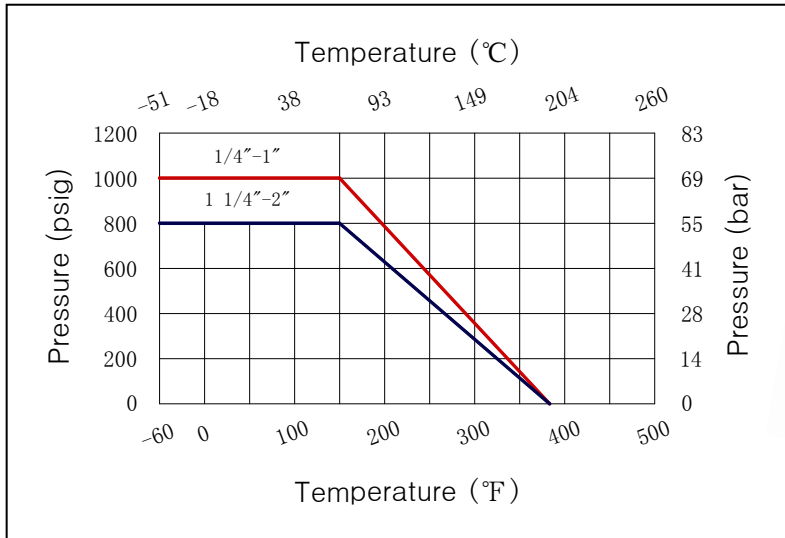


Model Shown: **16F-DY16L-T-SS**

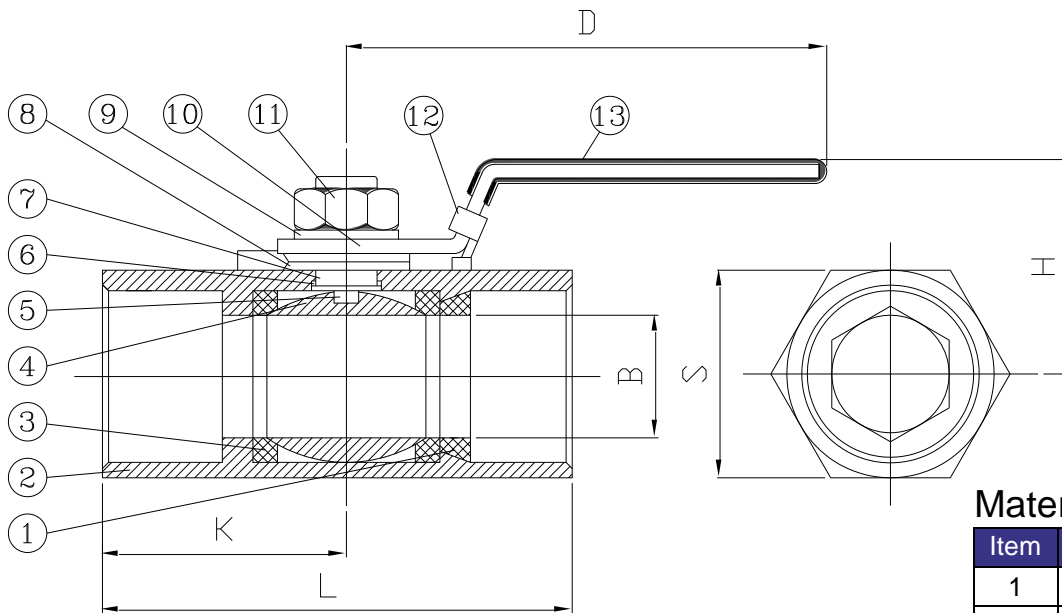
Specifications

| | |
|------------------------|---|
| Working Pressure | 69 Bar (1000 PSI) CWP |
| Temperature Ratings | -51 °C to 193°C (-60 °F to 380 °F) |
| Body Material | CF8M Stainless Steel, 316SS Cast Equivalent |
| Ball and Stem Material | 316 Stainless Steel |
| End Connections | Female NPT / BSPT / BSPP |
| Port Size | 1/4" to 2" |

Pressure vs. Temperature



Dimensions & Materials List



Materials List

| Item | Part | Material |
|------|----------------|----------|
| 1 | Insert | CF8M |
| 2 | Body | CF8M |
| 3 | Seat | PTFE |
| 4 | Ball | SS 316 |
| 5 | Stem | SS 316 |
| 6 | Thrust Washer | PTFE |
| 7 | Stem Packing | PTFE |
| 8 | Gland Washer | SS 304 |
| 9 | Washer | SS 304 |
| 10 | Handle | SS 304 |
| 11 | Nut Stopper | SS 304 |
| 12 | Locking Device | SS 304 |
| 13 | Sleeve | Plastic |

Dimensions (mm)

| Part No. | Size | B | H | D | L | S | K | W(kg) |
|----------------|--------|------|----|------|------|----|------|-------|
| 4F-DY4L-T-SS | 1/4" | 5 | 38 | 62.5 | 39 | 17 | 19 | 0.07 |
| 6F-DY6L-T-SS | 3/8" | 7 | 40 | 73 | 44 | 21 | 21 | 0.11 |
| 8F-DY8L-T-SS | 1/2" | 9.2 | 51 | 85 | 56.5 | 25 | 27.5 | 0.18 |
| 12F-DY12L-T-SS | 3/4" | 12.5 | 53 | 87 | 59 | 32 | 30 | 0.26 |
| 16F-DY16L-T-SS | 1" | 16.0 | 56 | 107 | 71 | 38 | 36 | 0.42 |
| 20F-DY20L-T-SS | 1 1/4" | 20 | 61 | 107 | 78 | 49 | 40 | 0.75 |
| 24F-DY24L-T-SS | 1 1/2" | 25 | 68 | 130 | 83 | 53 | 42.5 | 0.85 |
| 32F-DY32L-T-SS | 2" | 32 | 73 | 130 | 100 | 65 | 51 | 1.35 |

How to Order

The correct part number is easily derived from the following number sequence. The six product characteristics required are coded as shown below.

Example: 8F - DY8L - T - SS Describes a DY8L Two-Way Ball Valve with 1/2" female NPT end connections for inlet and outlet ports, PTFE stem packing & seats, and stainless steel construction.

| 8 | F | — | DY8 | L | — | T | — | SS |
|-----------|----------------------|---|--------------|---------------------|---|------------------------------|---|----------------------|
| Port Size | Inlet / Outlet Ports | | Valve Series | Valve Configuration | | Stem Packing & Seat Material | | Body Material |
| 4 | F - Female NPT | | DY4 | L - 2 Way | | T - PTFE | | SS – Stainless Steel |
| 6 | TF - Female BSPT | | DY6 | | | | | |
| 8 | PF - Female BSPP | | DY8 | | | | | |
| 12 | | | DY12 | | | | | |
| 16 | | | DY16 | | | | | |
| 20 | | | DY20 | | | | | |
| 24 | | | DY24 | | | | | |
| 32 | | | DY32 | | | | | |

WARNING

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Parker Hannifin Instrumentation



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