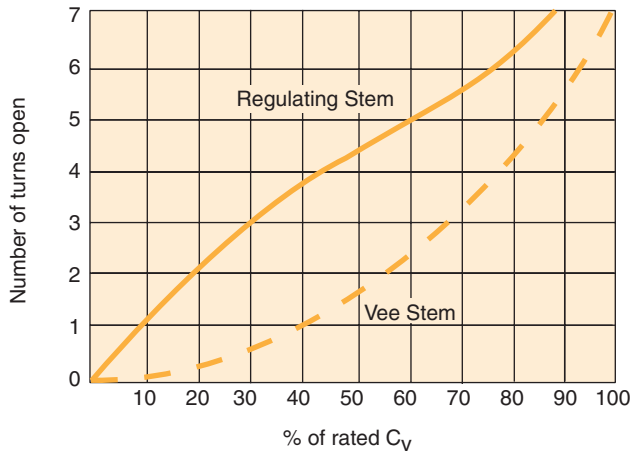


Two Way Inline Valves

Basic Repair Kits (316 SS)

Generalized Flow Coefficient Curves (C_V)



Pick Repair Kit by matching size ie; R4 = 1/4", and add packing/temp/material suffix if other than standard 316SS & PTFE (T)

Repair kits for LB, AB, XBI, XBO (V-Stem Versions)
R4MANB, R6MANB, R8MANB, R9MANB, R12MANB, R16MANB

Repair kits for LR, AR, XRI, XRO (Regulating-Stem Versions)
R4MANR, R6MANR, R8MANR, R9MANR, R12MANR, R16MANR

Repair kits for XBD 3-way 2-stem Valves (V-Stem versions)
R4MANXBD, R6MANXBD, R8MANXBD, R9MANXBD, R12MANXBD, R16MANXBD

Repair kits for XRD 3-way 2-stem Valves (Regulating-Stem versions)
R4MANXRD, R6MANXRD, R8MANXRD, R9MANXRD, R12MANXRD, R16MANXRD

Repair kits for ABR 2-way Replaceable Seat Valves (V-Stem versions)
R4MANABR, R6MANABR, R8MANABR, R9MANABR, R12MANABR, R16MANABR

Repair kits for ARR 2-way Replaceable Seat Valves (Regulating-Stem versions)
R4MANARR, R6MANARR, R8MANARR, R9MANARR, R12MANARR, R16MANARR

Consult your Parker representative for other material kit numbers, and pricing. Visit www.autoclave.com for product Operation manuals.

How to Order MAN Series Needle Valves

The correct part number is easily derived from the following example and ordering chart. The eight product characteristics required are coded as shown in the chart.

The following example describes an MAN Series needle valve with 1/4" MPI™ connections, 2 way angle flow path, blunt (VEE) stem, PTFE packing, a stainless steel body and the option for cryogenic trim materials

Typical part number example: **4MP7-MANAB-T-SS-LTB** (part number is created based on customer selection of product parameters, see below for example)

4	MP7	-	MAN	A	B	-	T	-	SS	-	LTB
Inlet/Outlet Connection Size	Connection Type		Valve Series	Valve Type	Stem Type		Packing Material		Body Material		Options
4 = 1/4" 6 = 3/8" 8 = 1/2" 9 = 9/16" 12 = 3/4" 16 = 1"	MP7 = Parker MPI™		MAN	L = 2 Way Inline A = 2 Way Angle X***I = 3 Way, 2 Pressure Connections X***D = 3 Way, 2 Stem Connection A***R = 2 Way Angle (replaceable seat) X***O = 3 Way, 1 Pressure Connection (*** Insert Stem Type)	B = Blunt (Vee) R = Regulating		T = PTFE (Standard) TG = PTFE Glass (use with HYG option) GY = Graphite Yarn		SS = Stainless Steel 2507 = Super Duplex		LTB = Cryogenic (-100° to 0°F) LT = Low Temp. Ext. (-100 to -423°F) HT = High Temp. Ext. (800° to 1000°F) PM = Panel Mount HYG = Hydrogen/Helium Service XF = High Strength Ferrules (sizes 12 & 16 only) LD = Lockout Device (clamshell)

Extreme Temperature Options:

Standard valves using PTFE packing (code "T") may be operated from -100°F (-73°C) to 450°F (232°C). High and Cryogenic temperature packing and/or extended stuffing box are available for service from -423°F (-252°C) to 1000°F (538°C) by adding the following suffixes to catalog order number: (Note: Use code "T" packing with "LTB" and "LT" Cryogenic options)

-LTB = Standard valve with Cryogenic trim materials and PTFE packing to -100°F (-73°C)

-LT = Extended stuffing box valve with PTFE packing and Cryogenic trim materials to -423°F (-252°C) (adds 3.5" to overall height of valve) use when temperature is below -100°F

-TG = Standard valve with PTFE-Glass packing from -100°F (-73°C) to 600°F (316°C)

-GY = Standard valve with Graphite Braided Yarn packing to 800°F (427°C). Use when selecting HT option.

(Note: 3/4" valve rated 8000 psi (552 bar) and 1" rated 6000 psi (412 bar) max with Graphite Yarn packing)

-HT = Extended stuffing box valve with Graphite Braided Yarn packing to 1000°F (538°C) (adds 3.5" to overall height of valve) use when temperature exceeds 800°F

MPI™ Medium Pressure Valves