



NEEDLE VALVES

Manually Operated

Parker Autoclave Brand: All Valve Series

OPERATION AND MAINTENANCE MANUAL

Manual 02-0024ME | August 2025



Series Model: **MANUALLY OPERATED NEEDLE VALVES**

Part Number: _____

Date of Purchase: _____

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Needle Valves: Manually Operated (All Series)

10V	60VM
10VRMM	60VRMM
MV/MVE	100VM
SW	150V
10P/15P	QSS
15SM/20SM	MPI
30SC/43SC	20BNV/20MV
30VM	
30VRMM	

WARNING - USER RESPONSIBILITY

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH,
PERSONAL INJURY AND PROPERTY DAMAGE.**

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The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors. To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Section 1.0 Installation

No adjustments are necessary prior to installation. Refer to Parker Autoclave Engineers' Valve, Fitting and Tubing Catalog (Installation Section) for proper tubing connection installation.

Note: The minimum and maximum temperature limits of the connection style and materials listed in the Valve, Fitting and Tubing Catalog.

Section 2.0 Packing Adjustment

If the valve packing starts to leak, follow the steps listed below to reseal the valve stem.

Note: The minimum and maximum temperature limits of the appropriate packing listed in the Valve, Fitting and Tubing Catalog.

1. Relieve all pressure from the valve and remove it from the system.
2. Turn valve stem to full open position.
3. Loosen the packing gland locking device.
4. While holding the valve body secure, use a torque wrench to tighten the packing gland to the value shown on the attached Installation Summary Chart Section 6.

If a torque wrench is not available, tighten the packing gland approximately 1/16 turn.

5. Pressurize the valve to the maximum operating pressure and check for leaks.
6. and repeat steps 4 and 5. If the packing does not seal after several attempts, it needs replaced (refer to Section 3.0).
7. Reinstall the packing gland locking device.

Parker Autoclave Engineers reserves the right to alter the specifications given in this publication in line with our policy of continuous improvement. All general terms and conditions of sale including limitations of our liability, apply to all products and services sold.

Section 3.0 Packing or Stem Replacement

CAUTION

If stem removal is necessary on a MicroMetering (VRMM series) valve, it must be returned to the factory as precise adjustments are necessary after assembly to achieve minimum flow capability of the valve.

4. While holding the valve body (or housing for HT and LT valves) secure, unthread and remove the packing gland. The packing will stay on stems that have a larger stem tip below the packing (Figure.3).

Note: For HT and LT valves, the housing must be removed where the stem tip is larger than the body cone ring ID (SW6, SM12 and SM16 valves). Remove the housing locking device and unscrew the housing from the valve body.

5. Autoclave Engineers manual valves have three different type of stems; one piece non-rotating (Figure 2), two piece pinned non-rotating (Figure 4) and rotating (Figure 5). Follow steps 6-9 for one piece non-rotating stems, steps 10-11 for two piece pinned non-rotating stems and step 12 for rotating stems.

One piece non-rotating stem

6. For stems without a larger stem tip, remove the bottom washer, packing and packing washer in the body. Place the bottom washer, packing and packing washer in the body. If the stem does not require replacement, screw the packing gland back into the body and tighten the packing gland to the value in the Installation Summary Chart Section 6.
7. Remove the handle by loosening the set screw(s) located in the larger hole of the handle (use a 5/32 hex wrench for the 3" long handle, a 3/16 hex wrench for the 4" and 10-1/4" long handle) and remove it from the stem sleeve. Unscrew the stem from the packing gland. Remove the two nuts and thrust washer from the top of the stem assembly. Remove the stem from the stem sleeve. Remove the bottom thrust washer from the stem. For SW8, 15SM9, 8MP7, 9MP7, 15QS9, 43SC16, and 20SM9 valves, remove the stem collar by unscrewing it clockwise. For stems with a larger stem tip, remove the packing washer and packing from the stem.

Section 3.0-con't

Packing or Stem Replacement

8. Clean thrust washers and all surfaces which mate with thrust washers with a clean cloth. Apply non-hardening lubricant (Jet-Lube SS-301 or similar) lightly to both faces of the thrust washer and the sleeve threads.
9. For stems with a larger stem tip, place the bottom washer, packing and packing washer on the stem (remove the bottom washer from the old stem if the stem is being replaced). For SW8, 15SM9, 8MP7, 9MP7, 15QS9, 43SC16, and 20SM9 valves, place the stem collar on the stem by threading it counter-clockwise. Place first thrust washer on the stem and slide stem into stem sleeve. Place second thrust washer on the stem sleeve. Replace hex nut lightly against the upper thrust washer and thread the stem assembly fully into the packing gland. Screw the packing gland into the body and tighten to the value in the Installation Summary Chart Section 6. Open the valve completely, then close it one turn to remove the play. Finger tighten the hex nut, then use a wrench to tighten it approximately 1/8 of a turn. Install the lock nut and finger tighten it in place. While holding the lock nut secure, loosen the hex nut from the top washer and tighten it against the lock nut approximately 1/16 of a turn. Replace the handle by lining the hex socket set screw up against the flat spot on the stem sleeve and tighten in place (DO NOT OVERTIGHTEN). In order to have a non-rotating stem, a slight amount of free play must exist between the stem sleeve and shaft. The handle should have a 10 degree maximum free play for "backlash". If the free play is excessive, it will be necessary to remove the handle and loosen the lock nut and tighten the hex nut further against the thrust washer. Tighten the lock nut as indicated above and check for free play. When the desired "backlash" is achieved, replace the handle as described above. Re-install the locking device.

Two piece pinned non-rotating stems

10. For high and low temperature valves that have two piece non-rotating stems, remove the groove pin holding the upper and lower stem together by driving it out with a rigid small diameter rod and pulling it out with a pair of pliers. Remove the packing washer and packing from the stem. If a new lower stem is required, remove the housing and cone ring from the old stem and place the cone ring and housing over the new lower stem. Place the bottom washer, packing and packing washer on the stem. Insert the lower stem into the upper stem so that the groove pin holes line up. Drive the groove pin into the hole until it is flush with the outside diameter of the upper stem.

11. Lubricate stem sleeve threads with Jet-Lube SS-301 or similar lubricant. Thread the stem sleeve all the way into the packing gland or the insert so that the stem is in the full open position. While holding the housing in a vice, torque the packing gland to the value in the Installation Summary Chart and tighten the locknut. Apply silicone grease or similar lubricant to the sealing surfaces of the cone rings. Apply Jet-Lube SS-301 or similar lubricant to the threads. Screw the housing into the valve body and torque the housing to the value in the Installation Summary Chart. Replace the housing locking device.

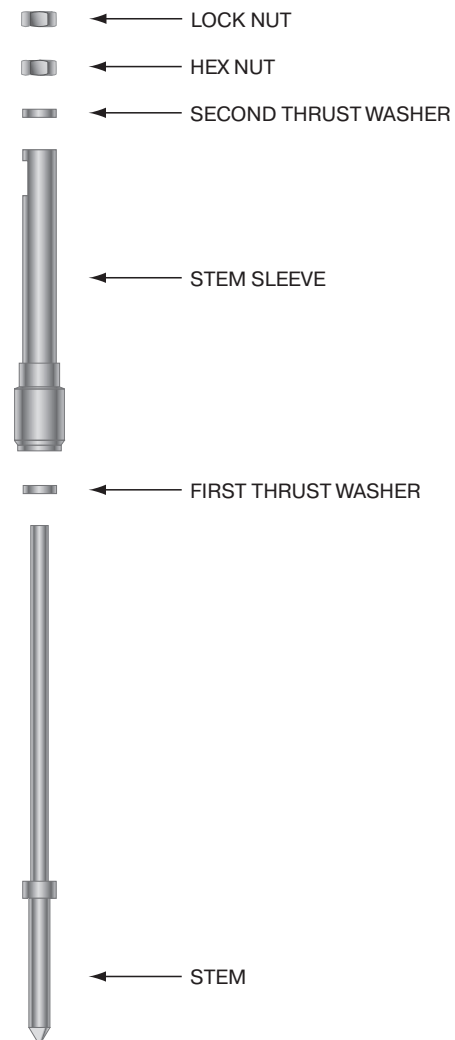


Figure 1:
Two-Piece Non-rotating Stem Assembly (Exploded)

Rotating Stem

12. Remove the handle from the stem. Unthread the stem from the packing gland. Apply Jet-Lube SS-30¹ or similar lubricant to the threads of the new stem and thread the new stem all the way into the packing gland. Line the set screw on the stem up with the flat spot on the stem and tighten the set screw. With the bottom washer, packing and packing washer installed in the body, screw in the packing gland and torque it to the value in the Installation Summary Chart Section 6. Reinstall the packing gland locking device.

¹SS30 is a registered trademark of Jet-Lube, Inc.

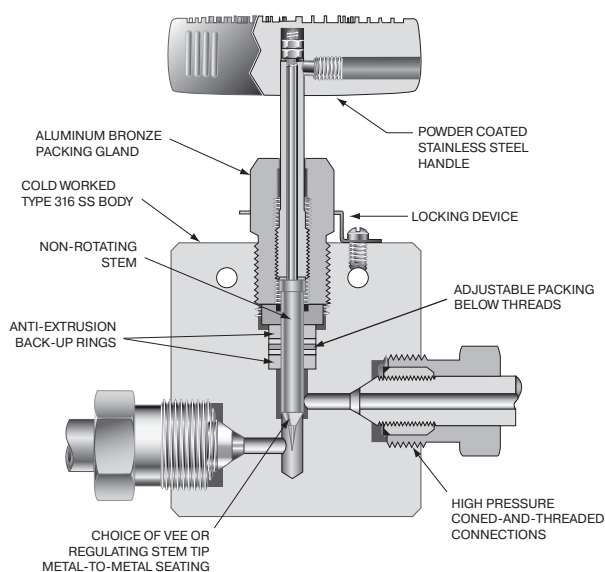


Figure 2:
Typical Valve Assembly

Section 4.0 Seat Replacement (Fig.3)

Routine maintenance consists of tightening the seat glands periodically to compensate for seat wear. With no pressure in the valve, use the following procedures:

- 4.1 Relieve all pressure from the valve and remove it from the system. Turn the valve stem to the full open position.
 - 4.1.1 While holding the body secure, unscrew the seat retainer
 - 4.1.2 Remove old seat and replace if necessary.
 - 4.1.3 Apply silicone grease or similar lubricant to sealing surfaces of seat. Apply Jet-Lube SS-30¹ or similar lubricant to the seat retainer threads.
 - 4.1.4 Replace seat and seat retainer. Make certain that the seat stays flat against the valve body. Tighten seat retainer to the torque specified in the Installation Summary Chart.

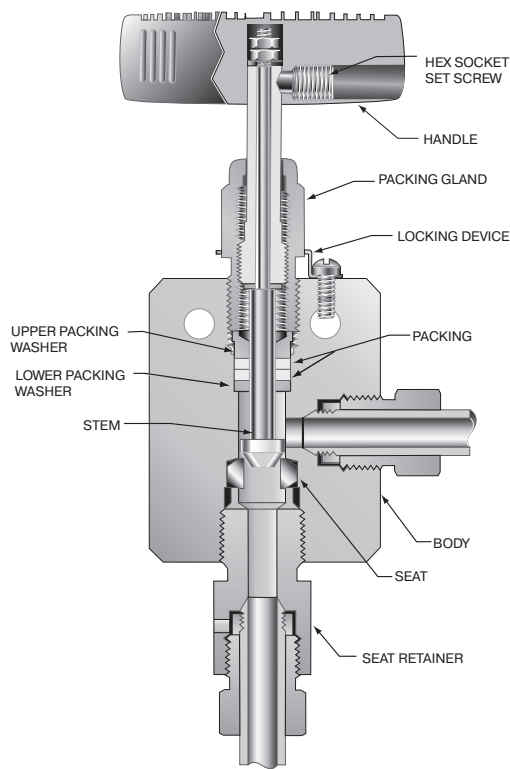


Figure 3:
Valve with Replacement Seat

Section 5.0

Stem Assemblies

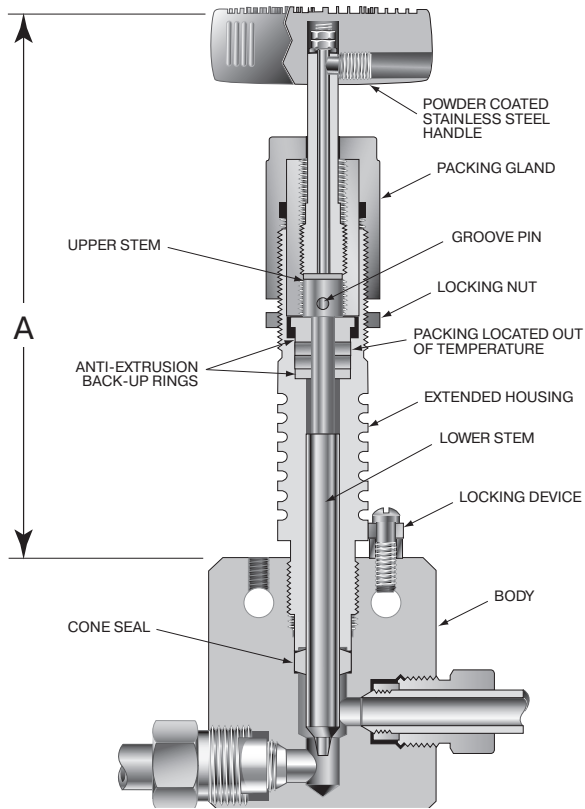


Figure 4:
Extended Housing Valve Assembly with Two Piece
Pinned Non-Rotating Stem

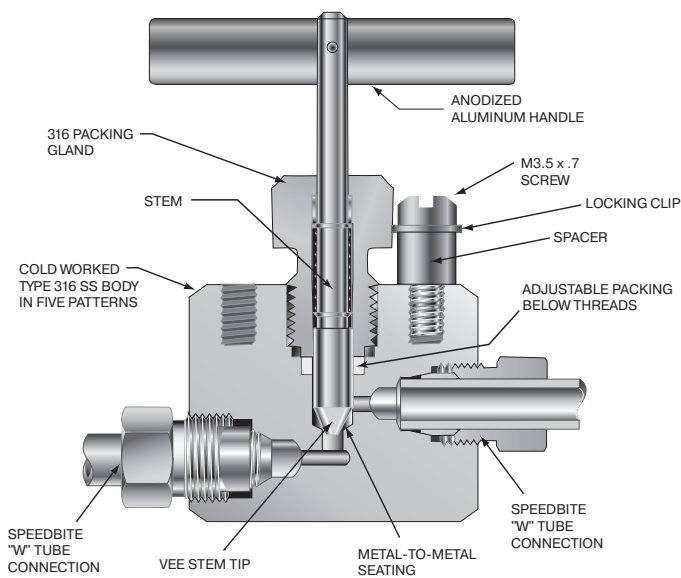


Figure 5:
One Piece Rotating Stem

Section 6.0

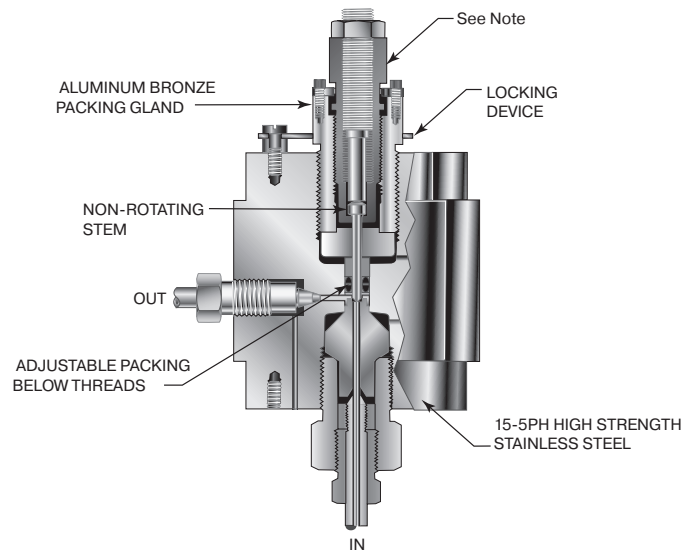
Service

For service contact the Parker Autoclave Engineers' Representative in your area or FAX Parker Autoclave Engineers' Support Services at 1-814-860-5703.

Notes:

HT - (high temperature extended stuffing box option).

LT - (cryogenic extended stuffing box option).



150V Series

To ensure proper for use Parker Autoclave tubing

NOTE: Not intended to be field repaired. Return to factory for maintenance issues. See Torque Charts on pages 7-8 for packing and operating torques.

Section 6.0

Installation Summary Chart

Valve Series **	Packing Gland Hex Size in (mm)	Packing Gland Torque ft-lbs. (Nm)	Tube Gland Hex Size in (mm)	Tube Gland Torque ft-lbs. (Nm)	Packing Part Number			Replaceable Seat Retainer Hex Size in (mm)	Replaceable Seat Torque in (mm)	Extended Housing Hex in (mm)	Extended Housing Torque ft-lbs. (Nm)	Packing Gland Hex Size (w/ext. housing) in (mm)	Packing Gland Torque (w/ext. housing) ft-lbs. (Nm)	Hex and Lock Nut Size in (mm)
					TFE (Qty.)	TG (Qty.)	GY (Qty.)							
MV1/MV2	1/2 (12.7)	12.5 (17.1)	.393 (10.0)	*	-	P-0825 (1)	-	-	-	-	-	-	-	-
MVE1/MVE2	1/2 (12.7)	12.5 (17.1)	3/8 (7.57)	*	-	P-0825 (1)	-	-	-	-	-	-	-	-
10V2/SW2	1/2 (12.7)	12 (16.3)	1/2 (12.7)	*	P-0492 (2)	P-0825 (2)	P-8926 (1)	1/2 (13.6)	10 (15.9)	5/8 (15.9)	10 (13.6)	1/2 (12.7)	12 (16.3)	7/32 (5.56)
10V4	13/16 (20.6)	40 (54.2)	13/16 (20.6)	*	P-0128 (1)	P-0466 (1)	P-8932 (1)	1 (25.4)	15 (20.4)	15/16 (23.8)	20 (27.2)	13/16 (20.6)	40 (54.4)	7/32 (5.56)
10V6	13/16 (20.6)	40 (54.2)	13/16 (20.6)	*	P-0128 (1)	P-0466 (1)	P-8932 (1)	1 (25.4)	10 (15.9)	15/16 (23.8)	15 (20.4)	13/16 (20.6)	40 (54.4)	7/32 (5.56)
10V8	13/16 (20.6)	30 (40.7)	15/16 (23.8)	*	P-0686 (1)	P-1211 (1)	P-8927 (1)	1 (25.4)	15 (20.4)	15/16 (23.8)	20 (27.2)	13/16 (20.6)	30 (47.6)	7/32 (5.56)
SW4	5/8 (15.9)	30 (40.7)	5/8 (15.9)	*	P-0685 (2)	P-1691 (2)	P-8928 (1)	3/4 (19.1)	20 (27.2)	13/16 (20.6)	35 (47.6)	1-13/16 (30.2)	25 (34.0)	7/32 (5.56)
SW6	5/8 (15.9)	40 (54.2)	3/4 (19.1)	*	P-0686 (2)	P-1211 (2)	P-8927 (1)	3/4 (19.1)	15 (20.4)	13/16 (20.6)	35 (47.6)	1-13/16 (30.2)	30 (40.8)	7/32 (5.56)
SW8	13/16 (20.6)	50 (67.8)	15/16 (23.8)	*	P-0677 (2)	P-0776 (2)	P-8929 (1)	1 (25.4)	50 (68.0)	1 (25.4)	35 (47.6)	1-1/2 (38.1)	20 (27.2)	5/16 (7.94)
15P4	5/8 (15.9)	40 (54.2)	-	*	P-0685 (2)	P-1691 (2)	P-8928 (1)	-	-	-	-	-	-	7/32 (5.56)
15P6	5/8 (15.9)	40 (54.2)	-	*	P-0685 (2)	P-1691 (2)	P-8928 (1)	-	-	-	-	-	-	7/32 (5.56)
15P8	13/16 (20.6)	80 (108)	-	*	P-0677 (2)	P-0776 (2)	P-8929 (1 set)	-	-	-	-	-	-	5/16 (7.94)
10P12	15/16 (23.8)	+	-	*	P-1758 (2)	P-1759 (2)	P-8930 (1 set)	-	-	-	-	-	-	3/8 (9.53)
10P16	1-3/8 (34.9)	20 (27.2)	-	*	P-1733 (2)	P-1775 (2)	P-8931 (1 set)	-	-	-	-	-	-	1/2 (12.7)
20SM4	5/8 (15.9)	40 (54.2)	1/2 (12.7)	20 (27.1)	P-0685 (2)	P-1691 (2)	P-8928 (1)	3/4 (19.1)	35 (47.62)	13/16 (20.6)	35 (47.6)	1-13/16 (30.2)	25 (34.0)	7/32 (5.56)
20SM6	5/8 (15.9)	40 (54.2)	5/8 (15.9)	30 (40.7)	P-0685 (2)	P-1691 (2)	P-8928 (1)	3/4 (19.1)	35 (47.62)	13/16 (20.6)	35 (47.6)	1-13/16 (30.2)	25 (34.0)	7/32 (5.56)
20SM9	13/16 (20.6)	80 (108)	15/16 (23.8)	55 (74.6)	P-0677 (2)	P-0776 (2)	P-8929 (1 set)	1 (25.4)	125 (170)	1 (25.4)	100 (136)	1-1/2 (38.1)	100 (136)	5/16 (7.94)
20SM12	15/16 (23.8)	+	1-3/16 (30.2)	90 (122)	P-1758 (2)	P-1759 (2)	P-8930 (1 set)	1-3/8 (34.9)	140 (190)	1-3/8 (34.9)	120 (163.2)	1-3/4 (44.5)	+	3/8 (9.53)
20SM16	1-3/8 (34.9)	++	1-3/8 (34.9)	125 (169.5)	P-1733 (2)	P-1775 (4)	P-8931 (1 set)	1-3/4 (44.5)	150 (203)	1-3/4 (44.5)	170 (231.2)	1-3/4 (44.5)	++	1/2 (12.7)
30SC16	1-3/8 (34.9)	230 (312)	1-3/8 (34.9)	150 (203)	P-1758 (2)	P-1759 (2)	P-8930 (1)	1-3/4 (44.5)	110 (150)	1-3/4 (44.5)	180 (245)	2-1/8 (54)	300 (406)	1-7/8 (47.6)
43SC16	1-3/8 (34.9)	230 (312)	1-3/8 (34.9)	150 (203)	P-1758 (2)	P-1759 (2)	P-8930 (1)	1-3/4 (44.5)	110 (150)	1-3/4 (44.5)	180 (245)	2-1/8 (54)	300 (406)	1-7/8 (47.6)
4MP7	5/8 (15.9)	40 (54.2)	9/16 (14.3)	#	P-0685 (2)	P-1691 (2)	P-8928 (1)	3/4 (19.1)	40 (54.2)	13/16 (20.6)	35 (47.6)	1-3/16 (30.2)	25 (34.0)	15/16 (23.8)
6MP7	5/8 (15.9)	40 (54.2)	11/16 (17.5)	#	P-0685 (2)	P-1691 (2)	P-8928 (1)	-	-	-	-	-	-	-
8MP7	13/16 (20.6)	80 (108)	15/16 (23.8)	#	P-0677 (2)	P-0776 (2)	P-8929 (1)	-	-	-	-	-	-	-
9MP7	13/16 (20.6)	80 (108)	1 (25.4)	#	P-0677 (2)	P-0776 (2)	P-8929 (1)	-	-	-	-	-	-	-
12MP7	15/16 (23.8)	+	1-1/4 (31.8)	##	P-1758 (2)	P-1759 (2)	P-8930 (1)	-	-	-	-	-	-	-
16MP7	1-3/8 (34.9)	++	1-1/2 (38.1)	##	P-1773 (2)	P-1775 (2)	P-8931 (1)	-	-	-	-	-	-	-
15QS4	5/8 (15.9)	40 (54.2)	9/16 (14.3)	###	P-0685 (2)	P-1691 (2)	P-8928 (1)	3/4 (19.1)	40 (54.2)	13/16 (20.6)	35 (47.6)	1-3/16 (30.2)	25 (34.0)	15/16 (23.8)
15QS6	5/8 (15.9)	40 (54.2)	11/16 (17.5)	##	P-0685 (2)	P-1691 (2)	P-8928 (1)	-	-	-	-	-	-	-
15QS9	13/16 (20.6)	80 (108)	1 (25.4)	##	P-0677 (2)	P-0776 (2)	P-8929 (1)	-	-	-	-	-	-	-
15QS12	13/16 (20.6)	80 (108)	1 (25.4)	##	P-0677 (2)	P-0776 (2)	P-8929 (1)	-	-	-	-	-	-	-
15QS16	13/16 (20.6)	80 (108)	1 (25.4)	##	P-0677 (2)	P-0776 (2)	P-8929 (1)	-	-	-	-	-	-	-

Section 6.0-con't

Installation Summary Chart

Valve Series **	Packing Gland Hex Size In (mm)	Packing Gland Torque ft-lbs. (Nm)	Tube Gland Hex Size in (mm)	Tube Gland Torque ft-lbs. (Nm)	Packing Part Number			Replaceable Seat Retainer Hex Size in (mm)	Replaceable Seat Torque in (mm)	Extended Housing Hex in (mm)	Extended Housing Torque ft-lbs. (Nm)	Packing Gland Hex Size (w/ext. housing) in (mm)	Packing Gland Torque (w/ext. housing) ft-lbs. (Nm)	Hex and Lock Nut Size in (mm)
					TFE (Qty.)	TG (Qty.)	GY (Qty.)							
30VM4	13/16 (20.6)	40 (54)	5/8 (15.9)	15 (20.3)	P-0128 (1)	P-0466 (1)	P-8932 (1)	3/4 (19.1)	35 (47.6)	15/16 (23.8)	50 (68.0)	13/16 (20.6)	40 (54)	7/32 (5.56)
30VM6	13/16 (20.6)	40 (54)	13/16 (20.6)	25 (33.9)	P-0128 (1)	P-0466 (1)	P-8932 (1)	1 (25.4)	35 (47.6)	15/16 (23.8)	50 (68.0)	13/16 (20.6)	40 (54)	7/32 (5.56)
30VM9	13/16 (20.6)	40 (54)	1-13/16 (30.2)	55 (74.6)	P-0128 (1)	P-0466 (1)	P-8932 (1)	1-3/8 (34.9)	35 (47.6)	15/16 (23.8)	50 (68.0)	13/16 (20.6)	40 (54)	7/32 (5.56)
60VM4	13/16 (20.6)	60 (81.3)	5/8 (15.9)	25 (33.9)	P-0864 (1 set)	P-8713 (2)	P-8933 (1)	13/16 (20.6)	45 (61.2)	15/16 (23.8)	65 (88.1)	13/16 (20.6)	60 (81.3)	7/32 (5.56)
60VM6	13/16 (20.6)	60 (81.3)	13/16 (20.6)	50 (67.8)	P-0864 (1 set)	P-8713 (2)	P-8933 (1)	1 (25.4)	45 (61.2)	15/16 (23.8)	65 (88.1)	13/16 (20.6)	60 (81.3)	7/32 (5.56)
60VM9	13/16 (20.6)	60 (81.3)	1-13/16 (30.2)	110 (149.2)	P-0864 (1 set)	P-8713 (2)	P-8933 (1)	1-3/8 (34.9)	45 (61.2)	15/16 (23.8)	65 (88.1)	13/16 (20.6)	60 (81.3)	7/32 (5.56)
10VRRMM2	5/8 (15.9)	20* (27.1)	1/2 (12.7)	*	P-1654 (1)	P-0467 (2)	P-8934 (1)	5/8 (15.9)	25 (34.0)	5/8 (15.9)	15 (20.5)	5/8 (15.9)	20 (27.3)	N/A
30VRRMM4	13/16 (20.6)	50* (67.8)	5/8 (15.9)	15 (20.3)	P-1654 (2)	P-0467 (2)	P-8934 (1)	13/16 (20.6)	50 (68.0)	15/16 (23.8)	50 (67.8)	13/16 (20.6)	50 (67.8)	N/A
60VRRMM4	13/16 (20.6)	50* (67.8)	5/8 (15.9)	25 (33.9)	P-0864 (2)	P-8713 (2)	P-8933 (1)	15/16 (23.8)	35 (47.6)	N/A	N/A	N/A	N/A	7/32 (5.56)
60VRRMM4	13/16 (20.6)	50* (67.8)	13/16 (20.6)	50 (67.8)	P-0864 (2)	P-8713 (2)	P-8933 (1)	1-3/8 (34.9)	35 (47.6)	15/16 (23.8)	55 (75.1)	13/16 (20.6)	75 (102.4)	7/32 (5.56)
100VM5	15/16 (23.8)	60 (81.3)	3/4 (19.1)	70 (95.0)	90368 (1), 90369 (2)			N/A	70 (95.2)	N/A	N/A	N/A	-	15/16 (7.94)
100VM4	15/16 (23.8)	60 (81.3)	3/4 (19.1)	70 (95.0)	90368 (1), 90369 (2)			1 (25.4)	70 (95.2)	N/A	N/A	N/A	-	15/16 (7.94)
100VM6	15/16 (23.8)	60 (81.3)	3/4 (19.1)	70 (95.0)	90368 (1), 90369 (2)			1 (25.4)	70 (95.2)	N/A	N/A	N/A	-	15/16 (7.94)
100VM9	15/16 (23.8)	150 (203)	1-13/16 (30.2)	125 (170)	91025 (2), 91026 (1)			-	-	-	-	-	-	-
150V	1- 3/8	60 (81.3)	3/4 (19.1)	70 (95.0)	104A-2928(2), P- 1828 (1)			1-1/4 (31.7)	190 ft/lb	-	-	-	-	###

Notes:

- ** Valve Series and connection size in sixteenth's of an inch are indicated
 - + Finger tight, then 3/4 turn with wrench (TFE only), 175 ft-lbs. (238.9) N-m with TG packing, 120 ft-lbs. (162.7) N-m with GY packing
 - TFE packing - 20 ft-lbs. (27.2 Nm), 325 ft-lbs. (443.8 Nm) with TG packing, 275 ft-lbs. (375 Nm) with GY packing.
 - Unless otherwise noted, torque values are for TFE packing. For TG packing add 10% and for GY packing add 25% to these values.
 - * Torque wrench not required for PAE Speedbite tube connections. Tighten gland until sleeve begins to grip tubing then 1-1/4 turn.
 - ~ Zero position of barrel or thimble must be changed.
 - 60VM and 60VRRM packing is nylon (P-0829), leather (P-0803), and nylon (P-0829).
- N/A Not Available
Finger tight. Then 1-1/2 turns with a wrench.
Use preset tool. For MPI: Tighten 1/2 turn, QSS: Tighten 1/4 turn.
Tighten gland nut sleeve begins to grip tubing. Then 1-1/4 turns.
150V Stem has 15/16 Hex (no handle) and must be actuated with torque wrench only. Torque to Close = 32 ft/lbs. Running Torque = 26 ft/lbs

Block and Bleed Valves

Valve Series **	Packing Gland Hex Size In (mm)	Packing Gland Torque ft-lbs. (Nm)	Tube Gland Hex Size in (mm)	Tube Gland Torque ft-lbs. (Nm)	Packing Part Number				Bleed Valve		
					TFE (Qty.)	TG (Qty.)	GY (Qty.)	Packing Gland Hex Size in (mm)	Packing Gland Torque ft-lbs. (Nm)	Vent Gland Torque ft-lbs. (Nm)	TFE (Qty.)
20DBNVM4	13/16 (20.6)	60 (82)	1/2 (12.7)	20 (27.1)	P-0128 (2)	-	-	1/2 (12.7)	25 (34)	20 (27.2)	P-0492 (1)
20DBNVM6	13/16 (20.6)	60 (82)	5/8 (15.9)	30 (40.7)	P-0128 (2)	-	-	1/2 (12.7)	25 (34)	20 (27.2)	P-0492 (1)
20DBNVH9	13/16 (20.6)	60 (82)	1-3/16 (30.2)	75 (55.1)	P-0128 (2)	-	-	1/2 (12.7)	25 (34)	20 (27.2)	P-0492 (1)
20MVB6	1/2 (12.7)	25 (34)	1/2 (12.7)	20 (27.2)	P-0492 (2)	-	-	-	-	1/2 (12.7)	-
20MVB6	1/2 (12.7)	25 (34)	5/8 (15.9)	30 (40.7)	P-0492 (2)	-	-	-	-	5/8 (15.9)	-

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Manually Operated Needle Valves
Operation and Maintenance Manual

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