

"Apollo"® Valves

mounting selection guide

aalberts-ips.us

customer service 704.841.6000 (US)
905.851.9494 (CAN)



integrated
piping systems



selection
guide

pneumatic actuators, electric actuators,
gear operators & accessories

revised by: Bill Hooks

date: 1/17/2020

approved by: Charles Purser

date: 1/17/2020

Apollo ball valves

| | |
|---|----|
| <u>actuator accessories - mounting kits</u> | 4 |
| <ul style="list-style-type: none"> • westlock limit switches • stonel limit switches • PMV positioners • monituer limit switches • accord positioners • westlock beacon indicators to Apollo actuators • VRC positioners • proximity brand limit switches | |
| <u>AE, CS & CL series electric actuators</u> | 5 |
| <ul style="list-style-type: none"> • proximity brand limit switches • manually operated valves | |
| pneumatic actuators | 6 |
| pneumatic actuators - class 600 | 9 |
| OA3, OA8, OA15, AT25, AT50, BT100 actuators | 10 |
| <u>gear operators</u> | 13 |
| <ul style="list-style-type: none"> • DT-3 through D-36 • 87A, 88A series flanged valves | |

top entry ball valves & butterfly valves

| | |
|--|----|
| actuators 141/143, LD141/WD141 series butterfly valves | 14 |
| HPBFVs | 18 |
| ISO bonnet TEVs | 21 |
| specials / misc. | 23 |
| change log | 24 |



actuator accessories - mounting kits

| actuators | WESTLOCK limit switch | STONEL std. limit switch | STONEL eclipse | STONEL - SOLAR/ ONYX "L" shaft | PMV positioner | MONITUER limit switch | ACCORD Positioner | BEACON ONLY direct mount | VRC positioner | PROXIMITY limit switch |
|--|--------------------------|-----------------------------|-------------------|-----------------------------------|-------------------|--------------------------|----------------------|-----------------------------|-------------------|---------------------------|
| 0012 | 63-002-01 (3) | 63-001-95 (3) | | 63-002-76 (3) | 63-002-01 (3) | 63-002-12 (3) | 63-002-01 (3) | 63-002-26 (3) | | 63-002-54 (3) |
| 0025, 0040, 0065, 0100, 0150, 0200, 0350 | 63-001-89 (3) | 63-001-95 (3) | 78-2681-01 | | 63-001-89 (3) | 63-002-13 (3) | 63-001-89 (3) | 63-002-22 (2) | 63-002-28 (2) | 63-002-37 (3) |
| 0600, 0950, 1600, 2500, 4000 | 63-001-91 (3) | 63-001-97 (3) | | 63-002-78 (3) | 63-001-91 (3) | 63-002-14 (3) | 63-001-91 (3) | 63-001-85 (3) | 63-002-29 (3) | 63-002-38 (3) |
| DT-3 | | | | | | | | | | 63-002-59 (3) |
| DT-7 | | | | | | | | | | 63-002-60 (3) |
| DT-12 | | | | | | | | | | 63-002-58 (3) |
| DT-21 | | | | | | | | | | |
| DT-36 | | | | | | | | | | |
| DT0036DM | | | | | | | | | | |
| G01XX, G02XX, G03XX series | 63-001-89 (3) | 63-001-96 (3) | | 63-002-77 (3) | 63-001-89 (3) | 63-002-13 (3) | 63-001-89 (3) | 63-002-22 (2) | 63-002-28 (2) | 63-002-37 (3) |
| 3S45-3S105 | 63-002-97 | | | | 63-002-97 | 63-002-13 | 63-002-97 | | | |
| 3S125-3S210 | 63-002-98 | | | | 63-002-98 | 63-002-14 | 63-002-98 | | | |

note:
(2) = non-metallic or carbon steel plated
(3) = stainless steel

ACT001 Revision AK
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electric actuators

| valve series | valve size (in) | mounting kit material | AE series ISO mtg. 19mm F07 | CS series ISO mtg. 19mm F05-F07 | CL series (-B) ISO mtg. 22mm F07-F10 | proximity limit switch** |
|--|-----------------|-----------------------|-----------------------------|---------------------------------|--------------------------------------|--------------------------|
| 70-600 76-600 | ¼ - ½ | St'n St'l | 78-1123-01 | 78-1123-01 | | 63-002-74 |
| | ¾ | St'n St'l | 78-788-01 | 78-788-01 | | 63-002-33 |
| | 1 | St'n St'l | 78-788-01 | 78-788-01 | | 63-002-33 |
| | 1 ¼ | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 1 ½ | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 2 | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| 71-100 76-100 89-100 399-100 489-100 | ¼ - ½ | St'n St'l | 78-309-01 | 78-309-01 | | 63-002-32 |
| | ¾ | St'n St'l | 78-788-01 | 78-788-01 | | 63-002-33 |
| | 1 | St'n St'l | 78-788-01 | 78-788-01 | | 63-002-33 |
| | 1 ¼ | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 1 ½ | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 2 | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 2 ½ | Cs/Zinc | 78-718-01 | 78-718-01 | 78-719-01 | 63-002-35 |
| 3 | Cs/Zinc | 78-718-01 | 78-718-01 | 78-719-01 | 63-002-35 | |
| 77-100 | ¼ - ½ | St'n St'l | 78-309-01 | 78-309-01 | | 63-002-32 |
| | ¾ | St'n St'l | 78-788-01 | 78-788-01 | | 63-002-33 |
| | 1 | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 1 ¼ | St'n St'l | 78-717-01 | 78-717-01 | 78-807-01 | 63-002-34 |
| | 1 ½ | Cs/Zinc | 78-721-01 | 78-721-01 | 78-180-01 | 63-002-36 |
| | 2 | Cs/Zinc | 78-722-01 | 78-722-01 | 78-723-01 | 63-002-40 |
| | 2 ½ | Cs/Zinc | 78-718-01 | 78-718-01 | 78-719-01 | 63-002-35 |
| "AR" series 71-AR 76-AR 89-AR | ¼ - ½ | St'n St'l | 78-1524-01 | 78-1524-01 | | 63-002-67 |
| | ¾ - 1 | St'n St'l | 78-1532-01 | 78-1532-01 | | 63-002-68 |
| | 1 ¼ - 3 | St'n St'l | 78-1538-01 | 78-1538-01 | 78-1540-01 | 63-002-69 |
| "AR" series 77-AR | ¼ - ½ | St'n St'l | 78-1524-01 | 78-1524-01 | | 63-002-67 |
| | ¾ | St'n St'l | 78-1532-01 | 78-1532-01 | | 63-002-68 |
| 77648 | 2" only | St'n St'l | 78-1918-01 | 78-1918-01 | 78-1919-01 | 63-002-94 |
| 77D | ½ | St'n St'l | 78-2121-01 | 78-2121-01 | | |
| | ¾ | St'n St'l | 78-2122-01 | 78-2122-01 | | |
| | 1 | St'n St'l | 78-2115-01 | 78-2115-01 | | |
| | 1 ½ | St'n St'l | 78-2123-01 | 78-2123-01 | | |
| | 2 | St'n St'l | 78-2123-01 | 78-2123-01 | | |
| B2-100/200 body bolt Mtg. | ¼ - ¾ | St'n St'l | | | | 63-002-41 |
| | ½ | St'n St'l | 78-2136-01 | 78-2136-01 | | 63-002-42 |
| | ¾ | Cs/Zinc | 78-784-01 | 78-784-01 | | 63-002-43 |
| | 1 | Cs/Zinc | 78-732-01 | 78-732-01 | | 63-002-44 |
| | 1 ¼ | Cs/Zinc | 78-733-01 | 78-733-01 | 78-1601-01 | 63-002-45 |
| | 1 ½ | Cs/Zinc | 78-734-01 | 78-734-01 | 78-792-01 | 63-002-46 |
| | 2 | Cs/Zinc | 78-735-01 | 78-735-01 | 78-737-01 | 63-002-47 |
| | 3-old sty | St'n St'l | 78-739-01 | 78-739-01 | 78-740-01 | 63-002-90 |
| 4-old sty | St'n St'l | | | 78-741-01 | 63-002-99 | |
| 82A-ISO PAD | 3-ISO | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |
| | 4-ISO | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |

| | | | | | | |
|--|-----------|------------|------------|------------|------------|-----------|
| 83R/86R-100,200,700 401R - 100,200 | ¼ - ½ | St'n St'l | 78-1524-01 | 78-1524-01 | | 63-002-67 |
| | ¾ - 1 | St'n St'l | 78-1532-01 | 78-1532-01 | | 63-002-68 |
| | 1 ¼ - 2 | St'n St'l | 78-1538-01 | 78-1538-01 | 78-1540-01 | 63-002-69 |
| 83A,83B 86A,86B full-port | 3 | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |
| | ¼ - ½ | St'n St'l | 78-2029-01 | 78-2029-01 | | |
| | ¾ | St'n St'l | 78-2034-01 | 78-2034-01 | | |
| | 1 | St'n St'l | 78-1619-01 | 78-1619-01 | 78-1623-01 | 63-002-66 |
| | 1 ¼, 1 ½ | St'n St'l | 78-1620-01 | 78-1620-01 | 78-1624-01 | 63-002-65 |
| | 2 | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| 83A,84B 85A,85B standard-port | ¾ | St'n St'l | 78-2029-01 | 78-2029-01 | | |
| | 1 | St'n St'l | 78-2034-01 | 78-2034-01 | | |
| | 1 ¼, 1 ½ | St'n St'l | 78-1619-01 | 78-1619-01 | 78-1623-01 | 63-002-66 |
| | 2 | St'n St'l | 78-1620-01 | 78-1620-01 | 78-1624-01 | 63-002-65 |
| 87,88-100 | 2 ½ | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| | ½ | St'n St'l | 78-362-01 | 78-362-01 | | |
| | ¾ | St'n St'l | 78-219-01 | 78-219-01 | | 63-002-33 |
| 87A,88A-100,400,700 87B,88B-100,400 ISO MTG. PAD | 1 | St'n St'l | 78-824-01 | 78-824-01 | | 63-002-33 |
| | 1 ½ | St'n St'l | 78-1619-01 | 78-1619-01 | 78-1623-01 | 63-002-66 |
| | 2 | St'n St'l | 78-1620-01 | 78-1620-01 | 78-1624-01 | 63-002-65 |
| | 2 ½ | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| | 3 | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| | 4 | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |
| with "-A" suffix | 6 | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |
| | 8* (F16) | St'n St'l | | | 78-1972-01 | |
| 87A,88A-200,500,900 ISO MTG. PAD | ½ | St'n St'l | 78-2744-01 | 78-2744-01 | | 63-003-01 |
| | ¾ | St'n St'l | 78-2741-01 | 78-2741-01 | | |
| | ½ | St'n St'l | 78-1680-01 | 78-1680-01 | | |
| | ¾ | St'n St'l | 78-1684-01 | 78-1684-01 | | 63-002-66 |
| | 1 | St'n St'l | 78-1619-01 | 78-1619-01 | 78-1623-01 | 63-002-66 |
| | 1 ½ | St'n St'l | 78-1620-01 | 78-1620-01 | 78-1624-01 | 63-002-65 |
| | 2 | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| | 2 ½ | St'n St'l | 78-1621-01 | 78-1621-01 | 78-1625-01 | 63-002-64 |
| | 3 | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 |
| 4 | St'n St'l | 78-1622-01 | 78-1622-01 | 78-1626-01 | 63-002-63 | |
| 6* (F16) | St'n St'l | | | 78-1972-01 | | |

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- note:
 1. **switch mounts direct to manual valve body.
 2. proximity brand limit switch kits to manual valves are only available in stainless steel.
 3. CL series "(-B) ISO mtg." includes only CL series actuators with suffix "B". (ex: 3R88087B)
 4. *(F16) or (F25) is for ISO mounting pad size, reference only.
 5. * new item
 6. new part number



selection
guide

| valve series (in) | valve size | mounting kit material | 0012 | 0025 | 063 | 0100/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 |
|--|------------|-----------------------|------------|-------------|----------------|----------------|--|---------------------------|---------------------------|------------|----------------|---|----------------|
| | | | | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm | 55mm (F16-F25) |
| 70-600 76-600 | ¼ - ½ | St'n St'l | | 78-402-01 | 78-711-01 | 78-2124-01 | 78-1123-01 | | | | | | |
| | ¾ | St'n St'l | | 78-400-01 | 78-713-01 | 78-715-01 | 78-788-01 | | | | | | |
| | 1 | St'n St'l | | 78-400-01 | 78-713-01 | 78-715-01 | 78-788-01 | 78-2211-01 | | | | | |
| | 1 ¼ | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 1 ½ | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 2 | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| 71-100 76-100 89-100 399-100 489-100 | ¼ - ½ | St'n St'l | | 78-401-01 | 78-712-01 | 78-354-01 | 78-390-01 | | | | | | |
| | ¾ | St'n St'l | | 78-400-01 | 78-713-01 | 78-715-01 | 78-788-01 | | | | | | |
| | 1 | St'n St'l | | 78-400-01 | 78-713-01 | 78-715-01 | 78-788-01 | 78-2211-01 | | | | | |
| | 1 ¼ | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 1 ½ | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 2 | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-0 | 78-721-01 | 78-807-01 | | | | | |
| | 2 ½ | Cs/Zinc | | | | | 78-722-01 | 78-819-01 | 78-785-01 | | | | |
| 3 | Cs/Zinc | | | | | 78-718-01 | 78-819-01 | 78-785-01 | | | | | |
| 77-100 | ¼ - ½ | St'n St'l | | 78-401-01 | 78-712-01 | 78-354-01 | 78-390-01 | | | | | | |
| | ¾ | St'n St'l | | 78-400-01 | 78-713-01 | 78-715-01 | 78-788-01 | 78-2211-01 | | | | | |
| | 1 | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 1 ¼ | St'n St'l | | 78-2264-01 | 78-714-01 | 78-716-01 | 78-717-01 | 78-807-01 | | | | | |
| | 1 ½ | Cs/Zinc | | | | 78-720-01 | 78-721-01 | 78-2290-01 | | | | | |
| | 2 | Cs/Zinc | | | | | 78-722-01 | 78-723-01 | 78-804-01 | | | | |
| | 2 ½ | Cs/Zinc | | | | | 78-718-01 | 78-719-01 | 78-785-01 | 78-2571-01 | | | |
| "AR" 71-AR 76-AR 89-AR | ¼ - ½ | St'n St'l | 78-2295-01 | 78-1519-01 | 78-1521-01 | 78-1522-01 | 78-1524-01 | | | | | | |
| | ¾ - 1 | St'n St'l | | 78-1527-01 | 78-1529-01 | 78-1530-01 | 78-1532-01 | 78-2576-01 | | | | | |
| | 1 ¼ - 3 | St'n St'l | | | 78-1535-01 | 78-1536-01 | 78-1538-01 | 78-1540-01 | 78-1541-01 | 78-1541-01 | | | |
| | | | | | | | | | | | | | |
| "AR" 77-AR | ¼ - ½ | St'n St'l | 78-2295-01 | 78-1519-01 | 78-1521-01 | 78-1522-01 | 78-1524-01 | | | | | | |
| | ¾ | St'n St'l | | 78-1527-01 | 78-1529-01 | 78-1530-01 | 78-1532-01 | | | | | | |
| | 1 - 2 | St'n St'l | | 78-1535-01* | 78-1535-01* | 78-1536-01 | 78-1538-01 | 78-1540-01 | 78-1541-01 | 78-1541-01 | | | |
| 77648 | 2" only | St'n St'l | | | 78-1917-01 | 78-1918-01 | 78-1919-01 | 78-1920-01 | 78-1920-01 | | | | |
| 77D | ½ | St'n St'l | | 78-2247-01 | | | | | | | | 77D kits should: (1) have the insert removed and rotated 45° if an "A" suffix actuator is used (2) be used with a "B" suffix actuator | |
| | ¾ | St'n St'l | | 78-2006-01 | 78-2006-01 | 78-2297-01 | | | | | | | |
| | 1 | St'n St'l | | 78-2007-01 | 78-2007-01 | 78-2215-01 | 78-2115-01 ⁽²⁾ | | | | | | |
| | 1 ½ | St'n St'l | | | | 78-2008-01 | 78-2216-01 ^(1,3) 78-2009-01 ⁽³⁾ | 78-2216-01 ⁽¹⁾ | 78-2216-01 ⁽¹⁾ | | | | |
| | 2 | St'n St'l | | | | 78-2008-01 | 78-2008-01 ⁽¹⁾ | 78-2216-01 ⁽¹⁾ | 78-2216-01 ⁽¹⁾ | | | | |

note:
 (1) kit should include a "B" actuator
 (2) 78-2115-01 also fits AE-SER (bracketed kit)
 (3) 78-2216-01 for use on O150, use 78-2009-01 for O100

ACT001 Revision AK
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- 1. * new item
- 2. new part number





selection
guide

| valve series | valve size (in) | mounting kit material | 0012 | 0025 | 063 | 0100/0065 | DT3 ³ | DT7 ³ | 0350 | 0600 | 0950 | 1600/2500 | 4000 | DT-3 | DT-7 |
|---|-----------------|-----------------------|------------|------------|----------------|----------------|-------------------------|------------------|------------|------------|------------|------------|------|------------|------------|
| | | | (F03) | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 0100/0150 | 0200 | | | | | | | |
| 82-100/200 body bolt Mtg. | | Cs/Zinc | | | 78-780-01 | 78-790-01 | | | | | | | | | |
| | ¼ - ¾ | St'n St'l | | 78-1087-01 | 78-379-01 | 78-380-01 | | | | | | | | | |
| | ½ | Cs/Zinc | | | 78-724-01 | 78-791-01 | | | | | | | | | |
| | ½ | St'n St'l | | 78-1087-01 | 78-382-01 | 78-383-01 | 78-2136-01 | | | | | | | | |
| | ½ | Cs/Zinc | | | 78-725-01 | 78-728-01 | 78-784-01 | | | | | | | | |
| | ¾ | Cs/Zinc | | | 78-726-01 | 78-729-01 | 78-732-01 | | | | | | | | |
| | 1 | Cs/Zinc | | | 78-727-01 | 78-730-01 | 78-733-01 | | | | | | | | |
| | 1 ¼ | Cs/Zinc | | | | 78-731-01 | 78-734-01 | 78-792-01 | | | | | | | |
| | 1 ½ | Cs/Zinc | | | | 78-1179-01 | 78-735-01 | 78-737-01 | 78-334-01 | | | | | | |
| | 3-old sty | St'n St'l | | | | | 78-739-01 | 78-740-01 | 78-826-01 | | | | | | |
| 4-old sty | St'n St'l | | | | | | 78-741-01 | 78-829-01 | | 78-825-01 | | | | | |
| 82A- ISO PAD | 3-ISO | St'n St'l | | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | | | |
| | 4-ISO | St'n St'l | | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | | | |
| 83R,86R - 100,200,700 | 1 ¼ - 2 | St'n St'l | | | 78-1535-01 | 78-1536-01 | 78-1538-01 | 78-1540-01 | 78-1541-01 | 78-1541-01 | | | | | |
| | 2 tank btm | St'n St'l | | | | 78-1536-01 | 78-1538-01 | 78-1540-01 | | | | | | | |
| | 3 | St'n St'l | | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | | | |
| 83A,83B 86A,86B full-port | 1 ¼ - ½ | St'n St'l | 78-2281-01 | 78-2026-01 | 78-2027-01 | 78-2028-01 | 78-2029-01 | | | | | | | | |
| | ¾ | St'n St'l | | 78-2031-01 | 78-2032-01 | 78-2033-01 | 78-2034-01 | | | | | | | | |
| | 1 | St'n St'l | | 78-2081-01 | 78-1613-01 | 78-1616-01 | 78-1619-01 | 78-1623-01 | | | | | | | |
| | 1 ¼, 1 ½ | St'n St'l | | | 78-1614-01 | 78-1617-01 | 78-1620-01 | 78-1624-01 | 78-2645-01 | | | | | | |
| | 2 | St'n St'l | | | 78-2082-01 | 78-1618-01 | 78-1620-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | 78-1621-01 | 78-1625-01 |
| 84A,84B [*] 85A,85B standard - port | ¾ | St'n St'l | 78-2281-01 | 78-2026-01 | 78-2027-01 | 78-2028-01 | 78-2029-01 | | | | | | | | |
| | 1 | St'n St'l | | 78-2031-01 | 78-2032-01 | 78-2033-01 | 78-2034-01 | | | | | | | | |
| | 1 ¼, 1 ½ | St'n St'l | | 78-2081-01 | 78-1613-01 | 78-1616-01 | 78-1619-01 | 78-1623-01 | | | | | | | |
| | 2 | St'n St'l | | | 78-1614-01 | 78-1617-01 | 78-1620-01 | 78-1624-01 | 78-2645-01 | | | | | | |
| | 2 ½ | St'n St'l | | | 78-2082-01 | 78-1618-01 | 78-1620-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | 78-1621-01 | 78-1625-01 |
| 6PLF | 2 | St'n St'l | | | | | 78-2530-01 ² | 78-2606-01 | | | | | | 78-2530-01 | |
| | 2 ½ | St'n St'l | | | | | 78-2531-01 ² | 78-2582-01 | | | | | | 78-2530-01 | |
| | 3 | St'n St'l | | | | | 78-2531-01 | 78-2532-01 | 78-2533-01 | | | | | 78-2567-01 | |
| | 4 | St'n St'l | | | | | | 78-2581-01 | 78-2533-01 | 78-2533-01 | | | | | 78-2568-01 |
| | 6 | St'n St'l | | | | | | | | 78-2608-01 | 78-2534-01 | 78-2566-01 | | | |
| | 8 | St'n St'l | | | | | | | | 78-2608-01 | | 78-2535-01 | | | |
| | 10 | St'n St'l | | | | | | | | | | 78-2535-01 | | | |

note:
² fits AO150
³ does not include 6PLFs

ACT001 Revision AK
 Revised 1/17/2020

- 1. * new item
- 2. new part number



| valve series | valve size (in) | mounting kit material | 0025 | 063 | 0100/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | |
|-----------------------|-------------------|-----------------------|------------|----------------|----------------|------------|----------------|--------------------------------------|------------|----------------|---------------------------|----------------|--|
| | | | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm | 55mm (F16-F25) | |
| 87A,88A - 400,700 | 1 ½ | St'n St'l | 78-2081-01 | 78-1613-01 | 78-1616-01 | 78-1619-01 | 78-1623-01 | | | | | | |
| | 2 | St'n St'l | | 78-1614-01 | 78-1617-01 | 78-1620-01 | 78-1624-01 | | | | | | |
| | 2 ½ | St'n St'l | | 78-2082-01 | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | |
| | 3 | St'n St'l | | 78-2082-01 | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | |
| | 87B,88B - 100,400 | 4 | St'n St'l | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | |
| | | 6 | St'n St'l | | | | | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | |
| | | 8 *(F16) | St'n St'l | | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | |
| ISO Mtg. PAD | 10 *(F16) | St'n St'l | | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | | |
| | ½ | St'n St'l | 78-2742-01 | 78-2742-01 | 78-2743-01 | 78-2744-01 | | | | | | | |
| with "-A" suffix | ¾ | St'n St'l | 78-2739-01 | 78-2739-01 | 78-2740-01 | 78-2744-01 | | | | | | | |
| | ½ | St'n St'l | 78-1677-01 | 78-1678-01 | 78-1679-01 | 78-1680-01 | | | | | | | |
| 87A,88A - 200,500,900 | ¾ | St'n St'l | 78-1681-01 | 78-1682-01 | 78-1683-01 | 78-1684-01 | | | | | | | |
| | 1 | St'n St'l | 78-2018-01 | 78-1613-01 | 78-1616-01 | 78-1619-01 | 78-1623-01 | 78-2527-01 | | | | | |
| | 1 ½ | St'n St'l | | 78-1614-01 | 78-1617-01 | 78-1620-01 | 78-1624-01 | | 78-2484-01 | | | | |
| | 2 | St'n St'l | | 78-2082-01 | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | |
| | 2 ½ | St'n St'l | | 78-2082-01 | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | | |
| | 3 | St'n St'l | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 / 78-2515-01 ¹ | 78-1630-01 | 78-1632-01 | | | |
| | 4 | St'n St'l | | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | 78-2517-01** ² | | |
| | 6 *(F16) | St'n St'l | | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | | |
| | 8 *(F16) | St'n St'l | | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | | |
| | 10 *(F25) | St'n St'l | | | | | | | | | 78-1635-01 | | |
| | 12 *(F25) | St'n St'l | | | | | | | | | 78-1635-01 | | |

¹78-2515-01 heat shield kit for 3"FP 87A to A0350

²option: 78-2459-01 is for high temperature applications, with heat shield

note:

*(F16) or *(F25) is for ISO mounting pad size reference only.

class 600 full port flanged valves

| valve series | valve size (in) | mounting kit material | 0025 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 |
|--------------|-----------------|-----------------------|------------|----------------|------------|----------------|------------|------------|----------------|------------|----------------|
| | | | 11mm (F04) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) |
| 87AF/88AF | 1 | St'n St'l | | 78-2670-01 | 78-2487-01 | | | | | | |
| | 1½ | St'n St'l | | | 78-1621-01 | | | | | | |
| | 2 | St'n St'l | | | 78-2671-01 | 78-2488-01 | 78-2731-01 | | | | |
| | 2½ | St'n St'l | | | | 78-2488-01 | | | | | |
| | 3 | St'n St'l | | | | 78-1622-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | | |
| | 4 | St'n St'l | | | | | 78-2489-01 | 78-2489-01 | | | |
| | 6 | St'n St'l | | | | | | | | 78-1634-01 | |
| | 8 *(F16) | St'n St'l | | | | | | | | | 78-2376-01 |
| 10 *(F16) | St'n St'l | | | | | | | | | | |

| valve series | valve size (in) | mounting kit material | AE series | CS series | CL series | DT-3 | DT-7 | DT-12 | DT-21 | DT-36DM |
|--------------|-----------------|-----------------------|------------|----------------|-------------------------|------------|------------|------------|------------|------------|
| | | | 19mm (F07) | 19mm (F05-F07) | (-B) 22 mm (F07-F10) | | | | | |
| 87AF/88AF | 1 | St'n St'l | 78-2487-01 | 78-2487-01 | | 78-2487-01 | | | | |
| | 1½ | St'n St'l | 78-1621-01 | 78-1621-01 | | 78-1621-01 | | | | |
| | 2 | St'n St'l | | | 78-2488-01 | | 78-2488-01 | | | |
| | 2½ | St'n St'l | | | 78-2488-01 | | 78-2488-01 | | | |
| | 3 | St'n St'l | | | | | 78-1626-01 | | | |
| | 4 | St'n St'l | | | | | | 78-2577-01 | | |
| | 6 | St'n St'l | | | | | | 78-1638-01 | | |
| | 8 *(F16) | St'n St'l | | | | | | | 78-2607-01 | 78-1640-01 |
| 10 *(F16) | St'n St'l | | | | | | | | | |

note: *(F16) or *(F25) is for ISO mounting pad size reference only.

ACT001 Revision AK
Revised 1/17/2020



selection
guide

| valve series | valve size (in) | mounting kit material | OA3 | OA8, 15 | AT 25 | AT 50 | BT 100 | FQ08 |
|--|-----------------|-----------------------|------------|------------|------------|------------|------------|-----------------|
| | | | female sq. | female sq. | female sq. | female sq. | female sq. | female sq. 22mm |
| 70-600 76-100 | ¼ - ½ | St'n St'l | | | | | | |
| | ¾ | St'n St'l | 78-715-MT | | | | | |
| | 1 | St'n St'l | 78-715-MT | | | | | |
| | 1¼ | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 1½ | St'n St'l | 78-716-MT | 78-807-MT | | | | 78-2640-01 |
| | 2 | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| 71-100 76-100 89-100 399-100 489-100 | ¼ - ½ | St'n St'l | 78-354-MT | | | | | |
| | ¾ | St'n St'l | 78-715-MT | | | | | |
| | 1 | St'n St'l | 78-715-MT | | | | | |
| | 1¼ | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 1½ | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 2 | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 2½ | Cs/Zinc | | 78-719-MT | | | | |
| | 3 | Cs/Zinc | | 78-719-MT | | | | |
| 77-100 | ¼ - ½ | St'n St'l | 78-354-MT | | | | | |
| | ¾ | St'n St'l | 78-715-MT | | | | | |
| | 1 | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 1¼ | St'n St'l | 78-716-MT | 78-807-MT | | | | |
| | 1½ | Cs/Zinc | 78-720-MT | 78-180-MT | | | | |
| | 2 | Cs/Zinc | | 78-723-MT | | | | |
| | 2½ | Cs/Zinc | | 78-719-MT | | | | |
| "AR" series 71-AR 76-AR 89-AR | ¼ - ½ | St'n St'l | 77-1522-MT | | | | | |
| | ¾ - 1 | St'n St'l | 78-1530-MT | | | | | |
| | 1¼ - 3 | St'n St'l | 78-1536-MT | | | | | |
| | | | | | | | | |
| "AR" series 77-AR | ¼ - ½ | St'n St'l | 77-1522-MT | | | | | |
| | ¾ - 1 | St'n St'l | 78-1530-MT | | | | | |
| | 1 - 2 | St'n St'l | 78-1536-MT | | | | | |
| 77648 | 2" only | St'n St'l | 78-1917-MT | | | | | |
| 77D | ½ | | | | | | | |
| | ¾ | | | | | | | |
| | 1 | | 78-2068-MT | | | | | |
| | 1½ | St'n St'l | 78-2008-MT | 78-2009-MT | | | | |
| | 2 | St'n St'l | 78-2008-MT | 78-2009-MT | | | | |
| 6LPF | 6 | | | | 78-2676-01 | | | |

ACT001 Revision AK
Revised 1/17/2020



| valve series | valve size (in) | mounting kit material | OA3 | OA8, 15 | AT 25 | AT 50 | BT 100 |
|--|-----------------|-----------------------|------------|------------|------------|------------|------------|
| | | | female sq. | female sq. | female sq. | female sq. | female sq. |
| 82-100/200 body bolt Mtg. | ¼ - ⅜ | St'n St'l | 78-790-MT | | | | |
| | ½ | Cs/Zinc | 78-380-MT | | | | |
| | ½ | St'n St'l | 78-791-MT | | | | |
| | ¾ | Cs/Zinc | 78-728-MT | 78-784-MT | | | |
| | 1 | Cs/Zinc | 78-729-MT | 78-732-MT | | | |
| | 1 ¼ | Cs/Zinc | 78-730-MT | 78-733-MT | | | |
| | 1 ½ | Cs/Zinc | 78-731-MT | 78-734-MT | 78-392-MT | | |
| | 2 | Cs/Zinc | 78-1179-MT | 78-735-MT | 78-737-MT | | |
| | 3 | St'n St'l | | 78-739-MT | 78-740-MT | | |
| 82A-ISO PAD | 3-ISO | St'n St'l | | 78-1622-MT | | | 78-1632-MT |
| | 4-ISO | St'n St'l | | 78-1622-MT | | | 78-1632-MT |
| 83,86 - 500,600,900 with Mtg. pad (-A suffix) | ¾ | St'n St'l | 78-306-MT | 78-307-MT | 78-317-MT | | |
| | 1 | St'n St'l | 78-309-MT | 78-310-MT | 78-311-MT | | |
| | 1 ¼ | St'n St'l | 78-309-MT | 78-310-MT | 78-311-MT | | |
| | 1 ½ | St'n St'l | 78-309-MT | 78-310-MT | 78-311-MT | | |
| only body bolt | ¼ - ½ | Cs/Zinc | 78-790-MT | | | | |
| | 1 ½ - 2 | St'n St'l | 78-380-MT | | | | |
| 85R - 100,200 | ¾ | St'n St'l | 78-1522-MT | | | | |
| | 1 - 1 ¼ | St'n St'l | 78-1530-MT | 78-1533-MT | | | |
| | 1 ½ - 2 | St'n St'l | 78-1536-MT | 78-1539-MT | | | |
| 83R,86R - 100,200,700 | ¼ - ½ | St'n St'l | 78-1522-MT | | | | |
| | ¾ - 1 | St'n St'l | 78-1530-MT | 78-1533-MT | | | |
| | 1 ¼ - 2 | St'n St'l | 78-1536-MT | 78-1539-MT | | | |
| | 2 tank btm | St'n St'l | 78-1536-MT | | | | |
| 83A,83B 86A,86B full - port | ¼ - ½ | St'n St'l | 78-2028-MT | 78-2029-MT | | | |
| | ¾ | St'n St'l | 78-2033-MT | 78-2034-MT | | | |
| | 1 | St'n St'l | 78-1616-MT | 78-1619-MT | 78-1623-MT | | |
| | 1 ¼, 1 ½ | St'n St'l | 78-1617-MT | 78-1620-MT | 78-1624-MT | | |
| | 2 | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |
| 84A,84B * 85A,85B standard - port | ¾ | St'n St'l | 78-2028-MT | 78-2029-MT | | | |
| | 1 | St'n St'l | 78-2033-MT | 78-2034-MT | | | |
| | 1 ¼, 1 ½ | St'n St'l | 78-1616-MT | 78-1619-MT | 78-1623-MT | | |
| | 2 | St'n St'l | 78-1617-MT | 78-1620-MT | 78-1624-MT | | |
| | 2 ½ | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |

note:
1. * new item

ACT001 Revision AK
Revised 1/17/2020



| valve series | valve size (in) | mounting kit material | OA3 | OA8, 15 | AT 25 | AT 50 | BT 100 |
|--------------------------------|-----------------|-----------------------|------------|------------|------------|------------|------------|
| | | | female sq. | female sq. | female sq. | female sq. | female sq. |
| 87,88 - 100 | ½ | St'n St'l | 78-1169-MT | 78-326-MT | | | |
| | ¾ | St'n St'l | 78-328-MT | | | | |
| | 1 | St'n St'l | 78-786-MT | 78-824-MT | | | |
| 87A,88A - 100,400,700 | 1 ½ | St'n St'l | 78-1616-MT | 78-1619-MT | 78-1623-MT | | |
| | 2 | St'n St'l | 78-1617-MT | 78-1620-MT | 78-1624-MT | | |
| | 2 ½ | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |
| | 3 | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |
| 87B,88B - 100,400 ISO Mtg. PAD | 4 | St'n St'l | | 78-1622-MT | 78-1626-MT | | 78-1632-MT |
| | 6 | St'n St'l | | 78-1622-MT | 78-1626-MT | | 78-1632-MT |
| | 8* (F16) | St'n St'l | | | | 78-1972-MT | 78-1633-MT |
| | 10* (F16) | St'n St'l | | | | 78-1972-MT | 78-1633-MT |
| with "-A" suffix | ½ | St'n St'l | 78-2743-MT | 78-2744-MT | | | |
| | ¾ | St'n St'l | 78-2740-MT | | | | |
| 87A,88A - 200,500,900 | ½ | St'n St'l | 78-1679-MT | 78-1680-MT | | | |
| | ¾ | St'n St'l | 78-1683-MT | 78-1684-MT | | | |
| | 1 | St'n St'l | 78-1616-MT | 78-1619-MT | 78-1623-MT | | |
| | 1 ½ | St'n St'l | 78-1617-MT | 78-1620-MT | 78-1624-MT | | |
| | 2 | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |
| | 2 ½ | St'n St'l | 78-1618-MT | 78-1621-MT | 78-1625-MT | | |
| | 3 | St'n St'l | | 78-1622-MT | 78-1626-MT | | 78-1632-MT |
| | 4 | St'n St'l | | 78-1622-MT | 78-1626-MT | 78-2629-MT | 78-1632-MT |
| | 6* (F16) | St'n St'l | | | | 78-1972-MT | 78-1633-MT |
| | 8* (F16) | St'n St'l | | | | 78-1972-MT | 78-1633-MT |
| | 10* (F16) | St'n St'l | | | | | |
| 12* (F16) | St'n St'l | | | | | | |

note: *(F16) or *(F25) is for ISO mounting pad size reference only.

ACT001 Revision AK
Revised 1/17/2020



manual worm gear operators

| valve series | valve size (in) | mounting kit material | DT3 | DT7 | DT12 | DT21 | DT-36 | DT-36DM |
|---------------------------------------|-----------------|-----------------------|------------|------------|----------------|----------------|------------|----------------|
| | | | 19mm (F07) | 22mm (F10) | bore/key (F12) | bore/key (F14) | | bore/key (F16) |
| 87A, 88A - 100,400,700 | 1 ½ | St'n St'l | 78-1619-01 | | | | | |
| | 2 | St'n St'l | 78-1620-01 | | | | | |
| | 2 ½ | St'n St'l | 78-1621-01 | | | | | |
| | 3 | St'n St'l | 78-1621-01 | | | | | |
| 87B,88B - 100,400 | 4 | St'n St'l | 78-1622-01 | | | | | |
| | 6 | St'n St'l | | 78-1626-01 | | | | |
| ISO Mtg. PAD | 8" (F16) | St'n St'l | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| | 10" (F16) | St'n St'l | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| with "-A" suffix | ½ | St'n St'l | 78-2744-01 | | | | | |
| | ¾ | St'n St'l | 78-2741-01 | | | | | |
| 87A,88A - 200,500,900 ISO Mtg. PAD | ½ | St'n St'l | 78-1680-01 | | | | | |
| | ¾ | St'n St'l | 78-1684-01 | | | | | |
| | 1 | St'n St'l | 78-1619-01 | | | | | |
| | 1 ½ | St'n St'l | 78-1620-01 | | | | | |
| | 2 | St'n St'l | 78-1621-01 | | | | | |
| | 2 ½ | St'n St'l | 78-1621-01 | | | | | |
| | 3 | St'n St'l | 78-1622-01 | | | | | |
| | 4 | St'n St'l | | 78-1626-01 | | | | |
| | 6" (F16) | St'n St'l | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| | 8" (F16) | St'n St'l | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| | 10" (F25) | St'n St'l | | | | | | 78-1640-01 |
| 12" (F25) | St'n St'l | | | | | | 78-1640-01 | |

optional handwheels

| gear operators | | handwheels | | handwheel |
|----------------|--------------|------------|--------------|----------------|
| model number | CII part no. | diameter | CII part no. | locking device |
| DT3 | DT-0003-00 | 8" | HW-CR08-00 | DT-0003-LD |
| DT7 | DT-0007-00 | 12" | HW-RR12-00 | DT-0007-LD |
| DT12 | DT-0012-00 | 18" | HW-RR18-00 | DT-0012-LD |
| DT21 | DT-0021-00 | 18" | HW-RR18-00 | DT-0021-LD |
| DT36DM | DT-0036-00 | 24" | HW-RR24-00 | DT-0036-LD |

- notes:
- gear operator, handwheel and mounting kit must be ordered separate
 - gear operators for valve sizes shown are recommended sizes for most applications. High torque applications may require other gear operators.
 - DT -36DM is a special configuration designed to fit only on 87A, 88A-20G, 20H valves with mounting kit 78-1640-01

| part no. | handwheel diameter | gear operator |
|------------|--------------------|--|
| HW-CR06-00 | 6" | 6" - 18" O.D. .625" hub bore dia. handwheels for DT12, DT21, DT36 only |
| HW-CR08-00 | 8" | |
| HW-RR10-00 | 10" | |
| HW-RR12-00 | 12" | |
| HW-RR14-00 | 14" | |
| HW-RR16-00 | 16" | |
| HW-RR17-00 | 18" | 12" - 48" O.D. .625" hub bore dia. handwheels for DT12, DT21, DT36 only |
| HW-RR13-00 | 12" | |
| HW-RR18-00 | 18" | |
| HW-RR20-00 | 20" | |
| HW-RR24-00 | 24" | |
| HW-RR30-00 | 30" | |
| HW-RR36-00 | 36" | |
| HW-RR48-00 | 48" | |

note: *(F16) or *(F25) is for ISO mounting pad size reference only.

ACT001 Revision AK
Revised 1/17/2020



Shurjoint - SJ-300N series BFV's

| valve series | valve size (in) | 0012 | 0025 | 063 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | OA3 OA8 OA15 | AT25 | AT50 | AT80 |
|--------------|-----------------|------|------------|----------------|----------------|------------|----------------|------------|------------|----------------|------------|----------------|--------------------|------|------|------|
| | | | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) | | | | |
| SJ-300N | 2 | | CX04583 | | CX04516 | | | | | | | | | | | |
| | 2 1/2 | | CX04583 | | CX04516 | | | | | | | | | | | |
| | 3 | | | | CX04516 | CX03564 | | | | | | | | | | |
| | 4 | | | | | CX03389 | CX03353 | | | | | | | | | |
| | 5 | | | | | CX03389 | | 78-2778-01 | | | | | | | | |
| | 6 | | | | | | 78-2783-01 | 78-2779-01 | 78-2779-01 | | | | | | | |
| | 8 | | | | | | | 78-2784-01 | 78-2779-01 | 78-2779-01 | | | | | | |
| | 10 | | | | | | | | 78-2785-01 | 78-2785-01 | 78-2780-01 | | | | | |
| | 12 | | | | | | | | 78-2785-01 | 78-2785-01 | | 78-2780-01 | | | | |
| | 14 | | | | | | | | | | | | 78-2781-01 | | | |
| | 16 | | | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |

| valve series | valve size (in) | AT100 | AT200 | BT100 | G10 series | G20 series | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series ISO Mtg. 22mm (F07-F10) | AQ15 ISO Mtg. 19mm (F05-F07) | AQ25 ISO Mtg. 27mm (F07-F10) | AQ50 ISO Mtg. 22mm (F07-F10) |
|--------------|-----------------|-------|-------|-------|------------|------------|--|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| | | | | | | | electric actuators | | | | | |
| SJ-300N | 2 | | | | | | CX03564 | | | | | |
| | 2 1/2 | | | | | | CX03564 | | | | | |
| | 3 | | | | | | CX03564 | | | | | |
| | 4 | | | | | | CX03389 | | | | | |
| | 5 | | | | | | | | | CX03055 | | |
| | 6 | | | | | | | | | | CX04779 | |
| | 8 | | | | | | | | | | CX04779 | 78-2782-01 |
| | 10 | | | | | | | | | | | 78-2782-01 |
| | 12 | | | | | | | | | | | |
| | 14 | | | | | | | | | | | |
| | 16 | | | | | | | | | | | |
| | 18 | | | | | | | | | | | |
| | 20 | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

ACT001 Revision AK
Revised 1/17/2020



141/143, LD141/WD141 series BFV's

| valve series | valve size (in) | 0012 | 0025 | 063 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | |
|------------------------|-----------------|------|------------|----------------|----------------|------------|----------------|------------|------------|----------------|------------|----------------|------------|
| | | | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) | |
| 141/143 LD141/WD141 | 2 | | CX04583 | CX04521 | CX04516 | CX03564 | | | | | | | |
| | 2 ½ | | CX04583 | CX04521 | CX04516 | CX03564 | | | | | | | |
| | 3 | | CX04583 | CX04521 | CX04516 | CX03564 | | | | | | | |
| | 4 | | | | CX04537 | CX03389 | CX03353 | | | | | | |
| | 5 | | | | CX04533 | CX03919 | CX03917 | | | | | | |
| | 6 | | | | CX04533 | CX03919 | CX03917 | | | | | | |
| | 8 | | | | | CX04536 | CX03920 | | | | | | |
| | 10 | | | | | | CX03922 | CX04502 | CX04502 | | | | |
| | 12 | | | | | | CX03936 | 78-2318-01 | 78-2318-01 | CX04632 | 78-2616-01 | | |
| | 14 | | | | | | | 78-2318-01 | 78-2318-01 | CX04632 | 78-2616-01 | | |
| | 16 | | | | | | | CX04630 | CX04630 | CX04433 | | | 78-2726-01 |
| | 18 | | | | | | | | | | | | 78-2727-01 |
| | 20 | | | | | | | | | | CX04594 | CX04619 | |
| 24 | | | | | | | | | | | | | |

| valve series | valve size (in) | OA3 OA8 OA15 | AT25 | AT50 | AT80 | AT100 | AT200 | BT100 | G10 series | G20 series |
|------------------------|-----------------|--------------------|---------|---------|---------|---------|------------|---------|------------|------------|
| 141/143 LD141/WD141 | 2 | CX03575 | | | | | | | | |
| | 2 ½ | CX03575 | | | | | | | | |
| | 3 | CX03575 | | | | | | | | |
| | 4 | CX03055 | CX04313 | | | | | | | |
| | 5 | CX03577 | CX04073 | | | | | | | |
| | 6 | CX03577 | CX04073 | | | | | | | |
| | 8 | CX03578 | CX03847 | | | | | | | |
| | 10 | | CX03867 | CX03848 | | | | CX04314 | | |
| | 12 | | | CX03849 | | | 78-2658-01 | CX04315 | | |
| | 14 | | | CX03849 | | | | CX04315 | | |
| | 16 | | | CX04204 | CX03924 | CX04317 | | CX04317 | CX04331 | |
| | 18 | | | | | | 78-2728-01 | | | |
| | 20 | | | | | | | CX04594 | | |
| 24 | | | | | | | CX04511 | CX04193 | CX04308 | |

note: continuation to page 16.



141/143, LD141/WD141 series BFV's

| valve series | valve size (in) | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series ISO Mtg. 22mm (F07-F10) | DT-3 | DT-7 |
|------------------------|--------------------|--|--|--|---------------------------|------|
| | | electric actuators | | | dynatorque gear operators | |
| 141/143 LD141/WD141 | 2 | CX03564 | CX03564 | | | |
| | 2 ½ | CX03564 | CX03564 | | | |
| | 3 | CX03564 | CX03564 | | | |
| | 4 | CX03589 | CX03389 | CX03353 | | |
| | 5 | CX03919 | CX03919 | CX03917 | CX03919 | |
| | 6 | CX03919 | | CX03917 | CX03919 | |
| | 8 | CX03919 | | CX03920 | | |
| | 10 | CX04536 | | CX03922 | | |
| | 12 | | | CX03936 | | |
| | 14 | | | CX03936 | | |
| | 16 | | | | | |
| | 18 | | | | | |
| | 20 | | | | | |
| 24 | | | | | | |

ACT001 Revision AK
Revised 1/17/2020



direct mount kits only

| valve series | valve size (in) | 0012 | 0025 | 063 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | 0A3 0A8 0A15 | AT25 | AT50 | AT80 | |
|----------------------------|-----------------|------|------------|----------------|----------------|--|----------------|------------|------------|----------------|------------|----------------|--------------------|------|------|------|--|
| | | | 11mm (F04) | 11mm (F05-F07) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) | | | | | |
| 141/143 LD141/ WD141 | 2 | | | | | | | | | | | | | | | | |
| | 2 ½ | | | | | | | | | | | | | | | | |
| | 3 | | | | | | | | | | | | | | | | |
| | 4 | | | | 78-2265-01 | | | | | | | | | | | | |
| | 5 | | | | | 78-2314-01 ² | 78-2314-01 | 78-2314-01 | | | | | | | | | |
| | 6 | | | | | 78-2268-01 ¹ 78-2314-01 ² | 78-2314-01 | 78-2314-01 | | | | | | | | | |
| | 8 | | | | | 78-2288-01 ² | 78-2288-01 | 78-2288-01 | 78-2288-01 | 78-2321-01 | | | | | | | |
| | 10 | | | | | | | | | 78-2292-01 | | | | | | | |
| | 12 | | | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | | | |
| | 16 | | | | | | | | | | | | | | | | |
| | 18 | | | | | | | | | | | | | | | | |
| | 20 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

| valve series | valve size (in) | AT100 | AT200 | BT100 | G10 series | G20 series |
|----------------------------|-----------------|-------|-------|-------|------------|------------|
| 141/143 LD141/ WD141 | 2 | | | | | |
| | 2 ½ | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 8 | | | | | |
| | 10 | | | | | |
| | 12 | | | | | |
| | 14 | | | | | |
| | 16 | | | | | |
| | 18 | | | | | |
| | 20 | | | | | |
| 24 | | | | | | |

notes: all kits use stainless hardware and stainless brackets
all kits listed are for double "D" stem configuration only

1 - fits 0100 actuator only
2 - fits 0150 actuators only

ACT001 Revision AK
Revised 1/17/2020



pneumatic actuators

| HPBFV Class 150 | 0025 | 0040/0065 | 0100 | 0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | 0A3 | 0A8,15 | AT 25 | AT 50 | AT 100 | BT 100 | |
|--------------------|---------------|-------------------|---------------|---------------|-------------------|---------------|-------------|-------------------|---------------|-------------------|---------------|---------------|---------------|------------|--------|---------------|--|
| | 11mm (F04) | 14mm (F05-F07) | 19mm (F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) | female sq. | female sq. | female sq. | female sq. | | female sq. | |
| 2 | | 78-2737-01* | 78-2615-01 | 78-2558-01* | 78-2558-01* | 78-2558-01* | | | | | | | | | | | |
| 2 ½ | | 78-2642-01* | 78-2521-01 | 78-2565-01* | 78-2565-01* | 78-2565-01* | | | | | | | | | | | |
| 3 | | 78-2642-01* | 78-2521-01 | 78-2565-01* | 78-2565-01* | 78-2565-01* | | | | | | | | | | | |
| 4 | | | 78-2268-01* | 78-2559-01* | 78-2559-01* | 78-2559-01* | | | | | | | | | | | |
| 5 | | | | 78-2560-01* | 78-2560-01* | 78-2560-01* | 78-2677-01 | | | | | | | | | | |
| 6 | | | | 78-2560-01* | 78-2560-01* | 78-2560-01* | 78-2677-01 | | | | | | | | | | |
| 8 | | | | | 78-2583-01 | 78-2734-01 | 78-2561-01* | 78-2738-01 | | | | | | | | | |
| 10 | | | | | | 78-2735-01 | 78-2735-01 | 78-2524-01 | 78-2585-01 | | | | | 78-2599-01 | | | |
| 12 | | | | | | | 78-2735-01 | 78-2525-01 | 78-2578-01 | 78-2752-01 | | | | | | 78-2641-01 | |
| 14 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | 78-2570-01 | | | | | | | |
| 18 | | | | | | | | | | 78-2570-01 | | | | | | | |
| 20 | | | | | | | | | | 78-2765-01 | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

| HPBFV Class 150 | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series ISO Mtg. 22mm (F07-F10) | DT-3 | DT-7 |
|--------------------|--|--|--|------------|------------|
| | electric actuators | | | gear op | |
| 2 | 78-2615-01 | 78-2615-01 | | | |
| 2 ½ | 78-2521-01 | 78-2521-01 | | 78-2521-01 | |
| 3 | 78-2521-01 | 78-2521-01 | | 78-2521-01 | |
| 4 | CX03919 | CX03919 | CX03917 | CX03919 | |
| 5 | 78-2522-01 | 78-2522-01 | | 78-2522-01 | |
| 6 | | 78-2522-01 | CX03920 | 78-2522-01 | |
| 8 | | | 78-2583-01 | | 78-2583-01 |
| 10 | | | | | 78-2763-01 |
| 12 | | | | | 78-2764-01 |
| 14 | | | | | |
| 16 | | | | | |
| 18 | | | | | |
| 20 | | | | | |
| 24 | | | | | |

note:
1. * new item

ACT001 Revision AK
Revised 1/17/2020



pneumatic actuators

| HPBFV Class 150 | 0025 | 0040/0065 | 0100 | 0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 | OA3 | OA8,15 | AT 25 | AT 50 | AT 100 | BT 100 | |
|--------------------|---------------|-------------------|---------------|---------------|-------------------|---------------|-------------|-------------------|---------------|-------------------|---------------|---------------|---------------|------------|------------|---------------|--|
| | 11mm (F04) | 14mm (F05-F07) | 19mm (F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) | female sq. | female sq. | female sq. | female sq. | | female sq. | |
| 2 | | 78-2737-01* | 78-2615-01 | 78-2558-01* | 78-2558-01* | 78-2558-01* | | | | | | | | | | | |
| 2 ½ | | 78-2642-01* | 78-2521-01 | 78-2565-01* | 78-2565-01* | 78-2565-01* | | | | | | | | | | | |
| 3 | | 78-2642-01* | 78-2521-01 | 78-2565-01* | 78-2565-01* | 78-2565-01* | | | | | | | | | | | |
| 4 | | | 78-2268-01† | 78-2559-01* | 78-2559-01* | 78-2559-01* | | | | | | | | | | | |
| 5 | | | | | 78-2563-01* | 78-2563-01* | 78-2563-01* | | | | | | | | 78-2730-01 | | |
| 6 | | | | | 78-2563-01* | 78-2563-01* | 78-2563-01* | | | | | | | | 78-2730-01 | | |
| 8 | | | | | | 78-2735-01 | 78-2735-01 | 78-2524-01 | 78-2585-01 | | | | | | 78-2599-01 | | |
| 10 | | | | | | | 78-2736-01 | 78-2525-01 | 78-2578-01 | | | | | | | 78-2641-01 | |
| 12 | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | 78-2570-01 | | | | | | | |
| 16 | | | | | | | | | | 78-2570-01 | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |

| HPBFV Class 150 | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series ISO Mtg. 22mm (F07-F10) | DT-3 |
|--------------------|--|--|--|------------|
| | electric actuators | | | gear op |
| 2 | 78-2615-01 | 78-2615-01 | | |
| 2 ½ | 78-2521-01 | 78-2521-01 | | 78-2521-01 |
| 3 | 78-2521-01 | 78-2521-01 | | 78-2521-01 |
| 4 | CX03919 | CX03919 | CX03917 | CX03919 |
| 5 | 78-2673-01 | 78-2673-01 | | |
| 6 | 78-2673-01 | 78-2673-01 | | |
| 8 | | | | |
| 10 | | | | |
| 12 | | | | |
| 14 | | | | |
| 16 | | | | |
| 18 | | | | |
| 20 | | | | |
| 24 | | | | |

note:
1. * new item

ACT001 Revision AK
Revised 1/17/2020



pneumatic actuators

| HPBFV Class 150 | 0025 11mm (F04) | 0040/0065 14mm (F05-F07) | 0100 19mm (F07) | 0150 19mm (F07) | 0200 22mm (F07-F10) | 0350 27mm (F10) | 0600 27mm | 0950 36mm (F10-F14) | 1600/2500 46mm (F16) | 4000 55mm (F16-F25) | 0A3 female sq. | 0A8,15 female sq. | AT 25 female sq. | AT 50 female sq. | BT 100 female sq. | |
|--------------------|-----------------------|--------------------------------|-----------------------|-----------------------|---------------------------|-----------------------|--------------|---------------------------|----------------------------|---------------------------|----------------------|-------------------------|------------------------|---------------------|-------------------------|--|
| 3 | | | | | 78-2559-01* | 78-2559-01* | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | 78-2736-01 | 78-2525-01 | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | 78-2570-01 | | | | | | |
| 12 | | | | | | | | | | | | | | | | |

| HPBFV Class 150 | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series ISO Mtg. 22mm (F07-F10) | DT-3 |
|--------------------|--|--|--|---------|
| | electric actuators | | | gear op |
| 3 | CX03919 | | CX03917 | CX03919 |
| 4 | | | | |
| 6 | | | | |
| 8 | | | | |
| 8 | | | | |
| 10 | | | | |
| 12 | | | | |

note:
for bracket kits, refer to -
78-2521-01 2 1/2"/3" class 150/300 to A0100/A0150
78-2522-01 5"/6" class 150 to A0150/DT-3

ACT001 Revision AK
Revised 1/17/2020

1. * new item

ISO bonnet TEV valves

| TEV class 150/300 | | 0025 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 |
|--------------------|----------------|------------|----------------|------------|----------------|------------|------------|----------------|--------------|----------------|
| standard port (in) | full port (in) | 11mm (F04) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) |
| 1 | | 78-2081-01 | 78-1616-01 | 78-1619-01 | 78-1623-01 | | | | | |
| 1½ | 1 | | 78-1617-01 | 78-1620-01 | 78-1624-01 | 78-2484-01 | 78-2484-01 | | | |
| 2 | 1½ | | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | |
| 3 | 2 | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | 78-2517-01** | |
| 4 | 3 | | | 78-1622-01 | 78-1626-01 | 78-1630-01 | 78-1630-01 | 78-1632-01 | 78-2517-01** | |
| 6 | 4 | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | 78-2280-01 |
| 8 | 6 | | | | 78-1972-01 | | 78-1630-01 | 78-1633-01 | 78-1634-01 | 78-2280-01 |
| 10 | 8 | | | | | | | | 78-1635-01 | 78-2376-01 |
| 12 | | | | | | | | | 78-1635-01 | 78-2376-01 |
| | 10 | | | | | | | | | |
| | 12 | | | | | | | | | |

| TEV class 150/300 | | OA3 | OA8,15 | AT 25 | AT 50 | BT 100 | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series (-B) ISO Mtg. 22mm (F07-F10) |
|--------------------|----------------|------------|------------|------------|------------|------------|-------------------------------|-----------------------------------|--|
| standard port (in) | full port (in) | female sq. | female sq. | female sq. | female sq. | female sq. | electric actuator | | |
| 1 | | 78-1616-MT | 78-1619-MT | 78-1623-MT | | | 78-1619-01 | 78-1619-01 | |
| 1½ | 1 | 78-1617-MT | 78-1620-MT | 78-1624-MT | | | 78-1620-01 | 78-1620-01 | 78-1624-01 |
| 2 | 1½ | 78-1618-MT | 78-1621-MT | 78-1625-MT | | | 78-1621-01 | 78-1621-01 | 78-1625-01 |
| 3 | 2 | | 78-1622-MT | 78-1626-MT | | 78-1632-MT | 78-1622-01 | 78-1622-01 | 78-1626-01 |
| 4 | 3 | | 78-1622-MT | 78-1626-MT | | 78-1632-MT | 78-1622-01 | 78-1622-01 | 78-1626-01 |
| 6 | 4 | | | | 78-1972-MT | 78-1633-MT | | | 78-1972-01 |
| 8 | 6 | | | | 78-1972-MT | 78-1633-MT | | | |
| 10 | 8 | | | | | | | | |
| 12 | | | | | | | | | |
| | 10 | | | | | | | | |
| | 12 | | | | | | | | |

| TEV class 150/300 | | DT3 | DT7 | DT12 | DT21 | DT36 | DT36Dm |
|----------------------------|----------------|------------|------------|----------------|----------------|------------|----------------|
| standard port (in) | full port (in) | 19mm (F07) | 22mm (F10) | bore/key (F12) | bore/key (F14) | | bore/key (F16) |
| manual worm gear operators | | | | | | | |
| 1 | | 78-1619-01 | | | | | |
| 1½ | 1 | 78-1620-01 | | | | | |
| 2 | 1½ | 78-1621-01 | | | | | |
| 3 | 2 | 78-1622-01 | | | | | |
| 4 | 3 | | 78-1626-01 | | | | |
| 6 | 4 | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| 8 | 6 | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| 10 | 8 | | | | | | 78-1640-01 |
| 12 | | | | | | | 78-1640-01 |
| | 10 | | | | | | |
| | 12 | | | | | | |

note:
* for heat shield hit use 78-2515-01
** for heat shield use 78-2459-01

ACT001 Revision AK
Revised 1/17/2020

pneumatic actuators

| TEV class 600 | | 0025 | 0040/0065 | 0100/0150 | 0200 | 0350 | 0600 | 0950 | 1600/2500 | 4000 |
|--------------------|----------------|------------|----------------|------------|----------------|-------------|------------|----------------|--------------|----------------|
| standard port (in) | full port (in) | 11mm (F04) | 14mm (F05-F07) | 19mm (F07) | 22mm (F07-F10) | 27mm (F10) | 27mm | 36mm (F10-F14) | 46mm (F16) | 55mm (F16-F25) |
| 1 | | | 78-1617-01 | 78-1620-01 | 78-1624-01 | 78-2484-01 | 78-2484-01 | | | |
| 1½ | 1 | | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | |
| 2 | 1½ | | 78-1618-01 | 78-1621-01 | 78-1625-01 | 78-1629-01 | 78-1629-01 | | | |
| 3 | 2 | | | 78-1622-01 | 78-1626-01 | 78-1630-01* | 78-1630-01 | 78-1632-01 | 78-2517-01** | |
| 4 | 3 | | | 78-1622-01 | 78-1626-01 | 78-1630-01* | 78-1630-01 | 78-1632-01 | 78-2517-01** | 78-2614-01 |
| 6 | 4 | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | 78-2280-01 |
| 8 | 6 | | | | 78-1972-01 | | 78-1631-01 | 78-1633-01 | 78-1634-01 | 78-2280-01 |
| | 8 | | | | | | | | 78-1635-01 | 78-2376-01 |

| TEV class 600 | | OA3 | OA8,15 | AT 25 | AT 50 | BT 100 | AE series ISO Mtg. 19mm (F07) | CS series ISO Mtg. 19mm (F05-F07) | CL series (-B) ISO Mtg. 22mm (F07-F10) |
|--------------------|----------------|------------|------------|------------|------------|------------|-------------------------------|-----------------------------------|--|
| standard port (in) | full port (in) | female sq. | female sq. | female sq. | female sq. | female sq. | electric actuator | | |
| 1 | | 78-1617-MT | 78-1620-MT | 78-1624-MT | | | 78-1620-01 | 78-1620-01 | 78-1624-01 |
| 1½ | 1 | 78-1618-MT | 78-1621-MT | 78-1625-MT | | | 78-1621-01 | 78-1621-01 | 78-1625-01 |
| 2 | 1½ | 78-1618-MT | 78-1621-MT | 78-1625-MT | | | 78-1621-01 | 78-1621-01 | 78-1625-01 |
| 3 | 2 | | 78-1622-MT | 78-1626-MT | | 78-1632-MT | 78-1622-01 | 78-1622-01 | 78-1626-01 |
| 4 | 3 | | 78-1622-MT | 78-1626-MT | | 78-1632-MT | 78-1622-01 | 78-1622-01 | 78-1626-01 |
| 6 | 4 | | | | 78-1972-MT | 78-1633-MT | | | 78-1972-01 |
| 8 | 6 | | | | 78-1972-MT | 78-1633-MT | | | |
| | 8 | | | | | | | | |

notes:
 1. gear operator, handwheel, & mounting kit must be ordered separate.
 2. gear operators for valve sizes shown are recommended sizes for most applications. High torque applications may require other gear operators.
 3. DT-36DM is a special configuration designed fit only on 87A, 88A-20G, 20H valves with mounting kit 78-1640-01.

| TEV class 600 | | DT3 | DT7 | DT12 | DT21 | DT36 | DT36DM |
|----------------------------|----------------|------------|------------|----------------|----------------|------------|----------------|
| standard port (in) | full port (in) | 19mm (F07) | 22mm (F10) | bore/key (F12) | bore/key (F14) | | bore/key (F16) |
| manual worm gear operators | | | | | | | |
| 1 | | 78-1620-01 | | | | | |
| 1½ | 1 | 78-1621-01 | | | | | |
| 2 | 1½ | 78-1621-01 | | | | | |
| 3 | 2 | 78-1622-01 | | | | | |
| 4 | 3 | | 78-1626-01 | | | | |
| 6 | 4 | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| 8 | 6 | | | 78-1638-01 | 78-1764-01 | 78-1765-01 | |
| | 8 | | | | | | 78-1640-01 |

| gear operators | | handwheels | | handwheel |
|----------------|--------------|---------------|--------------|----------------|
| model no. | CII part no. | diameter (in) | CII part no. | locking device |
| DT3 | DT-0003-00 | 8 | HW-CR08-00 | DT-0003-LD |
| DT7 | DT-0007-00 | 12 | HW-CR12-00 | DT-0007-LD |
| DT12 | DT-0012-00 | 18 | HW-CR18-00 | DT-0012-LD |
| DT21 | DT-0021-00 | 18 | HW-CR18-00 | DT-0021-LD |
| DT36DM | DT-0036-00 | 24 | HW-CR24-00 | DT-0036-LD |

| part no | handwheel diameter (in) | gear operator |
|---------------------|-------------------------|---|
| optional handwheels | | |
| HW-CR06-00 | 6 | 6" - 18" o.d. .625" hub bore dia. handwheels for DT3 & DT7 only |
| HW-CR08-00 | 8 | |
| HW-RR10-00 | 10 | |
| HW-RR12-00 | 12 | |
| HW-RR14-00 | 14 | |
| HW-RR16-00 | 16 | |
| HW-RR17-00 | 18 | 12" - 48" o.d. .625" hub bore dia. handwheels for DT12, DT21, & DT36 only |
| HW-RR13-00 | 12 | |
| HW-RR18-00 | 18 | |
| HW-RR20-00 | 20 | |
| HW-RR24-00 | 24 | |
| HW-RR30-00 | 30 | |
| HW-RR36-00 | 36 | |
| HW-RR48-00 | 48 | |

note:
 * for heat shield hit use 78-2515-01
 ** for heat shield use 78-2459-01

ACT001 Revision AK
 Revised 1/17/2020



special mounting kits or special applications

| kit no. | valve | actuator | accessories | comments |
|------------|-------------------------|-------------------------------------|-------------|--|
| 78-2299-01 | SSBB8A1 | DT-3 | | gear op to 2" TEV |
| 78-2298-01 | SSBB8A2 | DT-3 | | gear op to 2" TEV |
| 78-2342-01 | 77D14301E | 3R88402R | | UF 150 unidirectional act. from rex eng. |
| 78-2557-01 | 87A10701 | 3R88904A (Rotork RomPak2) | | |
| 78-737-MT | 82LF14801 | R88910A (Rotork RomPak3) | | |
| 78-2641-01 | HPBFV 12" C150/10" C300 | 3RAT50AF | | |
| 78-2674-01 | 2" LD/WD | FQ04 (3RSF28A4AF) | | |
| 78-2675-01 | 230L18 HPBFV | DT-36 | | recommended HWRR3600 |
| 78-2678-01 | 76AR, ¼" - ½" | AE | | 4" extended bracket |
| 78-2679-01 | 76AR, ¾" - 1" | AE | | 4" extended bracket |
| 78-2680-01 | 76AR, 1 ½" - 3" | AE | | 4" extended bracket |
| 78-2571-01 | 77109/76100 | AQ25 (3RAQ2525AL) | | |
| 3TLS330 | | A0350 | 3TLS329 | moniteur rotary positioner 40 series |
| 78-2732-MT | 8"CL150 HPBFV | BCI AQ25 CII#3RAQ25QU | | |
| 78-2733-MT | 14"CL150 HPBFV | BCI AT6L-SBWG-00M CII#3RAT6ISBWG00M | | |
| 78-2745-01 | 86A103 | Rotork CMQ250i (3R88930A) | | |
| 78-2746-01 | 86A105 | Rotork CMQ250i (3R88930A) | | |
| 78-2747-01 | 86A108 | Rotork CMQ250i (3R88931A) | | |
| 78-2748-01 | 86A107 | Rotork CMQ250i (3R88931A) | | |
| 78-2751-MT | 230L12 HPBFV | 3REZ250LP058 | | |

ACT001 Revision AK
Revised 1/17/2020

actuator inserts

| actuator | item no. | description | fits stems of the following dimensions | | | |
|------------------------------|----------------|---|--|-------------|-------------|-------------|
| | | | imperial (in) | | metric (in) | |
| | | | x-dimension | y-dimension | x-dimension | y-dimension |
| AD/AS 0025 | CX04573 | adapter, 11mm sq. | 0.433 | 0.433 | 11 | 11 |
| | CX04549 | adapter, 0.500dia x 0.397 flat | 0.394 | Ø0.500 | 10 | Ø13 |
| | CX04584 | adapter, blank | | | | |
| AD/AS 0040/0065 | CX04520 | adapter, 77D104 to AD/AS 0040,0065; 7mm sq. | 0.28 | 0.28 | 7 | 7 |
| | CX04550 | adapter, 0.500dia x 0.397 flat | 0.394 | Ø0.55 | 10 | Ø14 |
| | CX04570 | adapter, 11mm sq., alum, 77D105 TO | 0.433 | 0.433 | 11 | 11 |
| | CX04551 | adapter, 0.625dia x 0.476 flat | 0.476 | Ø0.627 | 12 | Ø16 |
| | CX04580 | adapter, 14mm sq. | 0.551 | 0.55 | 14 | 14 |
| | CX04552 | adapter, 0.751dia x 0.555 flat | 0.551 | Ø0.748 | 14 | Ø19 |
| | CX04575 | adapter, blank | | | | |
| AD/AS 0100 | CX04553 | adapter, 0.397dia x 0.524 flat | 0.394 | 0.524 | 10 | Ø13 |
| | CX04554 | adapter, 0.625dia x 0.475 flat | 0.476 | Ø0.627 | 12 | Ø16 |
| | CX04623 | adapter, 14mm sq. | 0.551 | 0.55 | 14 | 14 |
| | CX04555 | adapter, 0.750dia x 0.555 flat | 0.551 | Ø0.748 | 14 | Ø19 |
| | CX04584 | adapter, 17mm sq. | 0.669 | 0.669 | 17 | 17 |
| | CX04569 | adapter, 19mm sq. (0.748 sq.) | 0.748 | 0.748 | 19 | 19 |
| | CX04685 | adapter, blank | | | | |
| AD/AS 0150/0200/0350/0600 | CX04556 | adapter, 0.628 dia x 0.376 flat | 0.375 | Ø0.628 | 9.5 | Ø16 |
| | CX04720 | adapter, 11mm sq. | 0.433 | 0.433 | 11 | 11 |
| | CX04558 | adapter, 0.475 dia x 0.650 flat | 0.475 | 0.65 | 12 | 17 |
| | CX04572 | adapter, 77D107-108 TO | 0.551 | 0.551 | 14 | 14 |
| | CX04566 | adapter, 0.750 dia x 0.555 flat | 0.551 | Ø0.748 | 14 | Ø19 |
| | CX04560 | adapter, 0.673dia x 0.886 flat | 0.669 | 0.875 | 17 | 22 |
| | CX04571 | adapter, 19mm sq. | 0.748 | 0.748 | 19 | 19 |
| | CX04581 | adapter, 22mm sq. | 0.87 | 0.87 | 22 | 22 |
| | CX04559 | adapter, 0.869dia x 1.18 rect | 0.87 | 1.18 | 22 | 30 |
| | CX04557 | adapter, 1.250dia x 0.949 flat | 0.95 | Ø1.25 | 24 | Ø32 |
| | CX04582 | adapter, 27mm sq. | 1.063 | 1.063 | 27 | 27 |
| CX04686 | adapter, blank | | | | | |
| AD/AS 0950 | CX04567 | adapter, 0.673dia x 0.886 flat | 0.669 | 0.866 | 17 | 22.5 |
| | CX04562 | adapter, 1.125dia x 0.870 flat | 0.87 | Ø1.127 | 22 | Ø29 |
| | CX04561 | adapter, 1.250dia x 0.949 flat | 0.95 | Ø1.25 | 24 | Ø32 |
| | CX04622 | adapter, 36mm sq. | 1.417 | 1.417 | 36 | 36 |
| | CX04563 | adapter, blank | | | | |
| AD/AS 1600 | CX04568 | adapter, 1.250dia x 0.870 flat | .87 | Ø1.127 | 22 | Ø29 |
| | CX04564 | adapter, 1.248 dia x 0.950 flat | 0.95 | Ø1.25 | 24 | Ø32 |
| | CX04565 | adapter, blank | | | | |
| AD/AS 0150/0200/0350/0600 | CX04680 | class 150/300 2"HPBFV (.356 x .490) | 0.354 | 0.49 | 9 | 12.5 |
| | CX04714 | class 150/300 2½" & 3" HBFV (.434 x .580) | 0.433 | 0.55 | 11 | 14 |
| | CX04681 | class 150/300 4" HBFV (.553 x .725) | 0.551 | 0.725 | 14 | 18 |
| | CX04682 | class 150/300 5" & 6" HBFV (.671 x .890) | 0.669 | 0.886 | 17 | 22.5 |
| | CX04683 | class 150/300 8" HBFV (.750 x 1.01) | 0.748 | 1.01 | 19 | 25.5 |

ACT001 Revision AK
Revised 1/17/2020