

**"Apollo"® Valves**

mounting selection guide

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integrated  
piping systems



selection  
guide

pneumatic actuators, electric actuators,  
gear operators & accessories

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date: 1/17/2020

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## Apollo ball valves

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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

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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
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
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
83A,84B* 85A,85B standard-port	2	St'n St'l	78-1621-01	78-1621-01	78-1625-01	63-002-64
	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 <sup>(2)</sup>						
	1 ½	St'n St'l				78-2008-01	78-2216-01 <sup>(1,3)</sup> 78-2009-01 <sup>(3)</sup>	78-2216-01 <sup>(1)</sup>	78-2216-01 <sup>(1)</sup>				
	2	St'n St'l				78-2008-01	78-2008-01 <sup>(1)</sup>	78-2216-01 <sup>(1)</sup>	78-2216-01 <sup>(1)</sup>				

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

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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 <sup>3</sup>	DT7 <sup>3</sup>	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 <sup>*</sup> 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 <sup>2</sup>	78-2606-01						78-2530-01	
	2 ½	St'n St'l					78-2531-01 <sup>2</sup>	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:  
<sup>2</sup> fits AO150  
<sup>3</sup> does not include 6PLFs

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- 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			
87B,88B - 100,400	3	St'n St'l		78-2082-01	78-1618-01	78-1621-01	78-1625-01	78-1629-01	78-1629-01			
	4	St'n St'l				78-1622-01	78-1626-01	78-1630-01	78-1630-01	78-1632-01		
ISO Mtg. PAD	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	
	10 *(F16)	St'n St'l					78-1972-01		78-1631-01	78-1633-01	78-1634-01	
with "-A" suffix	½	St'n St'l	78-2742-01	78-2742-01	78-2743-01	78-2744-01						
	¾	St'n St'l	78-2739-01	78-2739-01	78-2740-01	78-2744-01						
87A,88A - 200,500,900	½	St'n St'l	78-1677-01	78-1678-01	78-1679-01	78-1680-01						
	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 <sup>1</sup>	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** <sup>2</sup>	
	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	

<sup>1</sup>78-2515-01 heat shield kit for 3"FP 87A to A0350

<sup>2</sup>option: 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.

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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					
	1 ¼	St'n St'l	78-716-MT	78-807-MT				
	1 ½	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					
	1 ¼	St'n St'l	78-716-MT	78-807-MT				
	1 ½	St'n St'l	78-716-MT	78-807-MT				
	2	St'n St'l	78-716-MT	78-807-MT				
	2 ½	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				
	1 ¼	St'n St'l	78-716-MT	78-807-MT				
	1 ½	Cs/Zinc	78-720-MT	78-180-MT				
	2	Cs/Zinc		78-723-MT				
	2 ½	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					
	1 ¼ - 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					
	1 ½	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			

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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				
	3	St'n St'l		78-1622-MT	78-1626-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

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selection  
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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.

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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.

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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 ½		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 ½						CX03564					
	3						CX03564					
	4						CX03389					
	5									CX03055		
	6										CX04779	
	8										CX04779	78-2782-01
	10											78-2782-01
	12											
	14											
	16											
	18											
	20											
24												

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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						

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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 <sup>2</sup>	78-2314-01	78-2314-01									
	6					78-2268-01 <sup>1</sup> 78-2314-01 <sup>2</sup>	78-2314-01	78-2314-01									
	8					78-2288-01 <sup>2</sup>	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

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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

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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

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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

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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

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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

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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		

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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

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