

IN-LINE FLUID VALVES & SWIVELS

Graco offers a wide selection of in-line fluid valves for efficient, convenient and productive fluid control. From ball valves to pressure relief valves, our high quality design offers the longest operating life possible. A variety of wetted parts, including stainless steel and Teflon, are available to match your diverse fluid demands.

- **Ball valves. Sizes for every need.**
- **Two way director valve. System flexibility.**
- **Needle valves. Fine flow rate control.**
- **Swivels. Easy gun motion and no hose twisting.**
- **Automatic pressure relief valves.**

Ball Valves

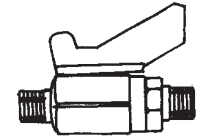
Used for on/off fluid control. Allows safer system operation by permitting relief of fluid pressure or isolation of components from pressure during maintenance.

Low Pressure Ball Valves

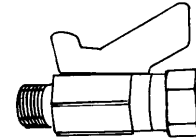
Part No.	Inlet/Outlet npt	Max WPR			Packings	Wetted Parts	Instr. Manual
		psi	bar	MPa			
208-390	1/4 x 1/4 (mbe)	500	35	3.5	Teflon	Steel*	307-068
208-393	3/8 x 3/8 (mbe)	500	35	3.5	Teflon	Steel*	307-068
218-109	3/8 (m) x 3/8 npsm(m)	500	35	3.5	Teflon	Steel*	307-068
208-392	3/8 x 1/4 (fxm)	500	35	3.5	Teflon	Steel*	307-068
208-475	3/8 (f) x 1/4 npsm(m)	500	35	3.5	Teflon	Steel*	307-068
208-391	3/8 x 3/8 (mxf)	500	35	3.5	Teflon	Steel*	307-068
208-476	3/8 (f) x 3/8 npsm(m)	500	35	3.5	Teflon	Steel*	307-068
208-630	3/8 (f) x 1/2 npt(m)	500	35	3.5	Teflon	Steel*	307-068
• 237-124	3/8 OD tube x 3/8 npsm(m) Bulkhead style	500	35	3.5	Teflon	316 SST	307-628
• 237-528	1/4 npt(m) x 1/4 npt(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-529	1/4 npt(m) x 3/8 npsm(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-530	3/8 npt(m) x 1/4 npt(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-531	3/8 npt(m) x 3/8 npt(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-532	3/8 npt(f) x 3/8 npt(f)	500	35	3.5	Teflon	316 SST	307-068
• 237-533	3/8 npsm(m) x 3/8 npt(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-534	3/8 npt(f) x 3/8 npt(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-535	3/8 npt(f) x 3/8 npsm(m)	500	35	3.5	Teflon	316 SST	307-068
• 237-536	3/8 OD tube x 3/8 npsm(m)	500	35	3.5	Teflon	316 SST	307-628
• 237-537	3/8 OD tube x 3/8 OD tube	500	35	3.5	Teflon	316 SST	307-628
• 237-538	3/8 OD tube x 3/8 npt(m)	500	35	3.5	Teflon	316 SST	307-628
• 237-539	3/8 OD tube x 3/8 npsm(m)	500	35	3.5	Teflon	316 SST	307-628
• 237-540	1/2 OD tube x 3/8 npsm(m)	500	35	3.5	Teflon	316 SST	307-628
• 237-541	1/2 OD tube x 3/8 npsm(m) Bulkhead style	500	35	3.5	Teflon	316 SST	307-628
• 237-542	3/8 OD tube x 3/8 OD tube	500	35	3.5	Teflon	316 SST	307-628

* Nickel-plated steel

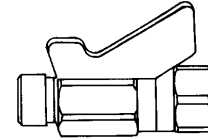
• Waterborne compatible



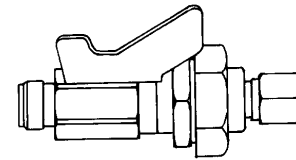
208-390



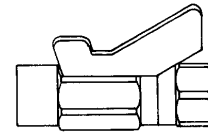
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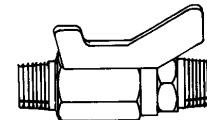
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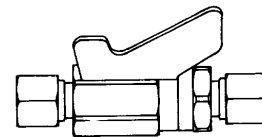
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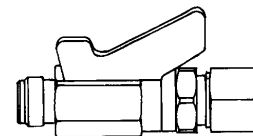
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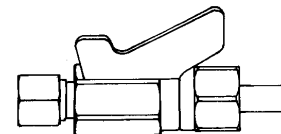
237-533



237-537



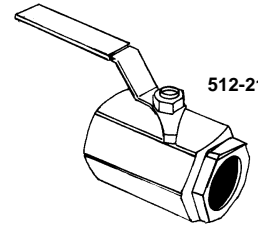
237-540



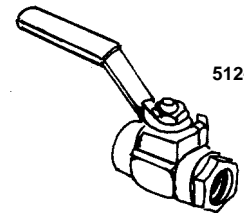
237-542

Medium Pressure Ball Valves

Part No.	Inlet/Outlet npt(fbe)	Max WPR			Packings	Wetted Parts
		psi	bar	MPa		
512-148	1/4	2000	138	13.8	Teflon	CS
512-149	3/8	2000	138	13.8	Teflon	CS
512-150	1/2	2000	138	13.8	Teflon	CS
512-151	3/4	2000	138	13.8	Teflon	CS
512-152	1	2000	138	13.8	Teflon	CS
512-212	1 1/2	1500	104	10.4	Teflon	CS
512-213	2	1500	104	10.4	Teflon	CS
• 512-482	1/4	2000	138	13.8	Teflon	SST
• 512-483	3/8	2000	138	13.8	Teflon	SST
• 512-484	1/2	2000	138	13.8	Teflon	SST
• 512-485	3/4	2000	138	13.8	Teflon	SST
• 512-486	1	2000	138	13.8	Teflon	SST



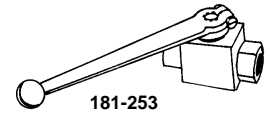
512-212



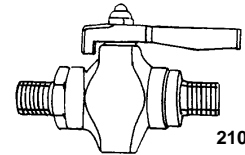
512-483

High Pressure Ball Valves

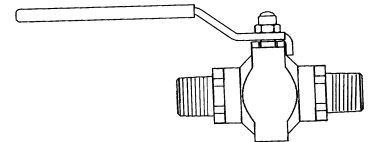
Part No.	Inlet/Outlet npt	Max WPR			Packings	Wetted Parts	Inst. Manual
		psi	bar	MPa			
102-644	3/4 (f) 3/4 (f)	3000	207	20.7	Nylon	CS	—
102-646	1/2 (f) 1/2 (f)	3000	207	20.7	Nylon	CS	—
181-253	3/8 (f) 3/8 (f)	3800	262	26.2	Buna-N	CS	—
210-657	1/4 (m) 1/4 (m)	5000	345	34.5	Viton	CS	306-861
214-037	1/4 (m) 1/4 (m)	5000	345	34.5	Teflon	CS	306-861
210-659	3/8 (m) 1/4 (m)	5000	345	34.5	Viton	CS	306-861
235-992	3/8 (m) 1/4 (m)	5000	345	34.5	Teflon	SST Passivated	306-861
240-410	3/8 (m) 3/8 (m)	5000	345	34.5	Teflon	SST Carbide, PEEK	306-861
210-658	3/8 (m) 3/8 (m)	5000	345	34.5	Viton	CS	306-861
218-901	1/4 - 18 npsm(m) 3/4 - 16 unf-2a(m)	5000	345	34.5	Teflon	CS	306-861
223-522	1/4 (m) 1/4 (m)	5000	345	34.5	Viton	CS Carbide seat	—
223-960	3/8 (m) 3/8 (m)	5000	345	34.5	Teflon	CS	306-861
223-959	3/8 (m) 1/4 (m)	5000	345	34.5	Teflon	CS	306-861
237-303	1/4 (m) 1/4 (m)	7400	510	51.0	Teflon	CS, PEEK seat	306-861
237-304	3/8 (m) 3/8 (m)	7400	510	51.0	Teflon	CS, PEEK seat	306-861



181-253



210-657



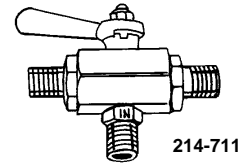
237-303

- **Waterborne compatible**

Two-Way Director Valve

Used to direct fluid flow from inlet to either of two outlets.

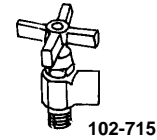
Part No.	Inlet/Outlet npt(m)	psi	Max WPR		Packings	Wetted Parts	Inst. Manual
			bar	MPa			
214-711	1/4 1/4	5000	345	34.5	Nylon	CS	306-861



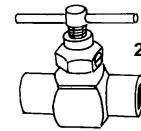
Needle Valves

Used to restrict fluid flow. Adjusts fluid delivery, establishes back pressure, and relieves fluid pressure.

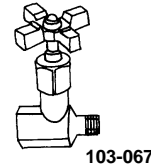
Part No.	Inlet/Outlet npt	psi	Max WPR		Packings	Wetted Parts
			bar	MPa		
108-233	1/4 x 1/4 (mbe)	5000	345	34.5	Teflon	Steel-plated
114-451	1/4 x 1/4 (fxm)	5000	345	34.5	Buna-N	Steel-plated
202-869	1/2 x 1/2 (fbe)	5000	345	34.5	Leather	Steel-plated
103-067	1/4 x 1/4 (mxf)	5000	345	34.5	Teflon	Brass
• 110-213	1/8 x 1/8 (fbe)	5000	345	34.5	Teflon	SST
• 102-926	3/8 x 3/8 (fbe)	5000	345	34.5	Teflon	SST



102-715



202-869



103-067



110-213

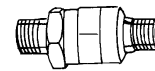
Check Valves

Used to prevent fluid back flow when fluid supply pressure is discontinued. Improves pump performance while reducing pulsation.

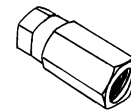
Part No.	Inlet/Outlet	psi	Max WPR		Packings	Wetted Parts
			bar	MPa		
206-962	3/8 x 3/8 npt(m)	3000	207	20.7	Buna-N	Zinc-plated steel, SST
206-831	3/8 x 3/8 npsm(f)	3000	207	20.7	Buna-N	Zinc-plated steel, SST
206-833	3/8 x 3/8 npsm(f) (90°)	3000	207	20.7	Buna-N	Zinc-plated steel, SST
• 501-867	1/4 x 1/4 npt(mbe)	3000	207	20.7	Teflon	303 SST
See Note 1						
• 501-684	3/8 x 3/8 npt(mbe)	3000	207	20.7	Teflon	303 SST
See Note 1						
• 501-603	1/2 x 1/2 npt(mbe)	3000	207	20.7	Teflon	303 SST
See Note 1						
220-179	3/4 x 3/4 npt(mbe)	4000	276	27.6	Thiokol	CS
See Note 2						
217-286	1 x 1 npt(fbe)	5000	345	34.5	Buna-N	CS

Note 1: 501-867, 501-684 and 501-603 are poppet style.

Note 2: 220-179 is standard on GH 433.



206-962



220-179

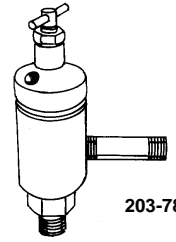
• Waterborne compatible

Pressure Relief Valves

Relieves residual fluid pressure when fluid supply pump is shut off or pressure maximum is exceeded.

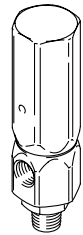
Relax-A-Valve

Part No.	Inlet/Outlet npt	Max WPR			Packings	Wetted Parts	Inst. Manual
		psi	bar	MPa			
203-789	1/2 (m) 3/8 (f)	1000	70	7.0	Leather	CS, Tungsten carbide	306-487



Automatic Pressure Relief Valve

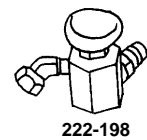
Part No.	Inlet/Outlet npt	Relief Port	Max WPR			Relief "Cracking" Pressure			Packings	Wetted Parts	Inst. Manual
			psi	bar	MPa	psi	bar	MPa			
• 237-060	1/2 (f) 1/2 (m)	1/2 npt(m)	475-575	33-40	3.3-4.0	750	52	5.2	Teflon	304 SST, tungsten carbide	308-547
• 237-061	1/2 (f) 1/2 (m)	1/2 npt(m)	950-1150	66-79	6.6-7.9	1500	103	10.3	Teflon	304 SST, tungsten carbide	308-547
• 237-112	1/2 (f) 1/2 (m)	1/2 npt(m)	1400-1800	97-124	9.7-12.4	2250	155	15.5	Teflon	304 SST, tungsten carbide	308-547
• 237-062	1/2 (f) 1/2 (m)	1/2 npt(m)	1800-2300	124-159	12.4-15.9	3000	207	20.7	Teflon	304 SST, tungsten carbide	308-547
• 237-073	1/2 (f) 1/2 (m)	1/2 npt(m)	2300-2900	159-200	15.9-20.0	3750	259	25.9	Teflon	304 SST, tungsten carbide	308-547
• 237-063	1/2 (f) 1/2 (m)	1/2 npt(m)	2900-3600	200-248	20.0-24.8	4500	310	31.0	Teflon	304 SST, tungsten carbide	308-547
• 237-074	1/2 (f) 1/2 (m)	1/2 npt(m)	3600-5000	248-345	24.8-34.5	6000	414	41.4	Teflon	304 SST, tungsten carbide	308-547



COMPONENTS

Manual Pressure Relief Valve

Part No.	Inlet/Outlet npt	Max WPR			Packings	Wetted Parts	Inst. Manual
		psi	bar	MPa			
Bare Drain Valve							
224-775	1/4 (m) 7/32 (f)	5000	345	34.5	Viton	CS, Tungsten carbide	—
Straight Tube Connector							
222-198	1/4 (m) 7/32 (f)	5000	345	34.5	Viton	CS, Tungsten carbide	—
Relief Valve							
221-077	1/4 (m) 3/8 (f)	7400	510	51.0	Viton	CS, Tungsten carbide	—

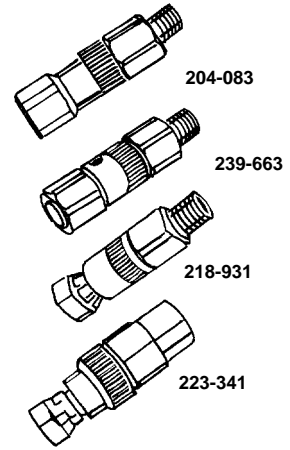


- **Waterborne compatible**

High Pressure Swivels

Used to provide free movement of hose sections without kinking or pressure bleeding from valves or spray guns.

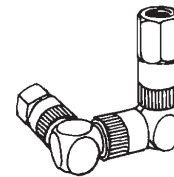
Part No.	Inlet/Outlet	Max WPR			Packings	Wetted Parts	Inst. Manual	Service Kit
		psi	bar	MPa				
204-083	1/4 npt(m) 1/8 npt(f)	8000	560	56.0	Leather	Steel-plated	306-708	—
204-084	1/4 npt(m) 1/4 npt(f)	8000	560	56.0	Leather	Steel-plated	306-708	—
214-925	1/4 npsm(f) 3/8 npt(f)	5000	350	35.0	Leather	Steel-plated	306-861	—
207-946	1/2 npsm(f) 3/8 npt(f)	6000	420	42.0	Polyurethane	Steel-plated	307-005	—
207-947	1/2 npt(f) 1/2 npt(m)	6000	420	42.0	Polyurethane	Steel-plated	307-005	—
239-663	1/4 npt(m) 1/4 npsm(f)	3600	250	25.0	Leather	Steel-plated	306-861	207-839
223-341	1/4 npt(m) 1/4 npsm(f)	3600	250	25.0	Teflon	Steel-plated	306-861	223-342
		Same as 239-663 except Teflon packed.						
214-926	1/2 npsm(f) 3/8 npt(f)	5000	350	35.0	Leather	Steel-plated	306-861	—
236-987	1/4 npsm(f) 1/4 npt(f)	7400	510	51.0	Filled PTFE	SST	306-861	—
224-457	1/4 npt(m) 1/4 npsm(f)	3000	207	20.7	—	—	—	—
		Same as 239-663 except 224-457 is card mounted.						
239-394	1/4 npsm(m) 1/4 npsm(f)	5800	400	40.0	Teflon	SST	—	—
		<i>Includes: filter chamber and 100 mesh tip filter (205-264).</i>						
189-018		Same as 239-394 except without filter chamber and tip filter.						



High Pressure 3-way Z-Type Swivels

Used to allow free movement of dispense valves and prevent hose tangles.

Part No.	Inlet/Outlet npt	Max WPR			Packings	Wetted Parts	Inst. Manual
		psi	bar	MPa			
202-579	1/8 (m) 1/4 (f)	6500	450	45.0	Leather	Steel-plated	306-708
202-577	1/4 (m) 1/4 (f)	6500	450	45.0	Leather	Steel-plated	306-708
223-340	1/4 (m) 1/4 (f)	6500	455	45.5	Teflon	Steel-plated	—
207-948	1/2 (m) 1/2 (f)	6000	420	42.0	Polyurethane	Steel-plated	307-005



202-579
202-577
223-340

Caution: Z-swivels to be used with non-abrasive fluids only.