



# Balflex® Hydraulic Quick Couplings

## Balflex® Hydraulic Quick Couplings and Ball Valves



# GESFLUID

**Balflex®** hydraulic quick couplings are designed for use with **Balfit®** hydraulic fittings and **Balflex®** hydraulic hoses in high pressure hydraulic systems.

The range of **Balflex®** hydraulic valves is produced according to **Balflex®** specifications and to **ISO**, **DIN** and **SAE** standards and other relevant industrial specifications. **Balflex®** has optimized the construction of these hydraulic valves in order to assure top rated performance, reliability and economy. Among their features are:

**Security:** To be used in standard hydraulic systems, Balflex hydraulic valves are all designed with a security factor of 4:1. Minimum burst pressure is thus always four times the rated working pressure

**Low spillage:** Specially designed sealing areas keep spillage below standard recommendations, whether at low or high pressure, when uncoupled

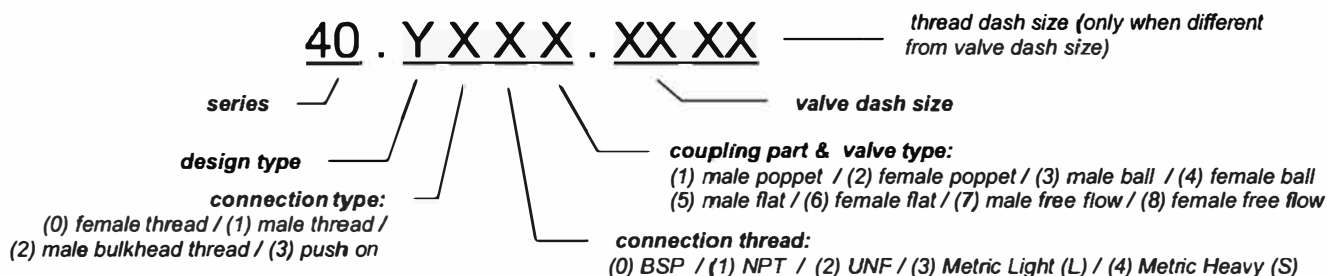
**Easy handling:** Connect and disconnect force are set at low values to allow easy handling

**High efficiency:** Sealing area design keeps pressure drop at a minimum, allowing undisturbed flow

**Heat and oil resistance:** Standard sealing rings are designed to resist oil and heat up to 80°C (+ 176°F). Special sealing rings on stainless steel bodies can be supplied on request for higher temperatures

**Versatility:** **Balflex®** valves are produced with all sorts of threads (BSP; Metric, NPT) and sizes in order to assure interchangeability and an extensive range of applications

The **Balflex®** hydraulic quick couplings part code is composed of three groups of digits:



Construction characteristics and dimensions may be changed at any time without prior notice.


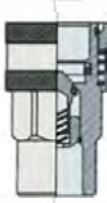

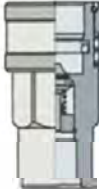

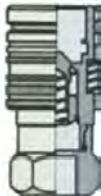
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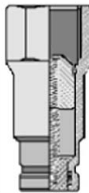
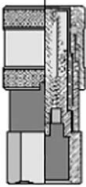


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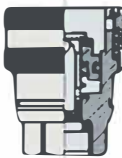
# Balflex® Hydraulic Quick Couplings






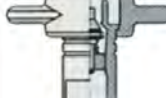



## Balflex® HYDRAULIC QUICK COUPLING *(quick disconnect coupler)*

					
<b>40.AXX1</b> Male ISO A	<b>40.AXX2</b> Female ISO A	<b>40.BXX1</b> Male ISO B	<b>40.BXX2</b> Female ISO B	<b>40.AXX1</b> Male Push-Pull	<b>40.PXX2</b> Female Push-Pull

			
<b>40.FXX5</b> Flat Face Male	<b>40.FXX6</b> Flat Face Female	<b>40.DXX1</b> Male DIN	<b>40.DXX2</b> Female DIN

			
<b>40.TXX1</b> High Flow Male NON-SPILL	<b>40.TXX2</b> High Flow Female NON-SPILL	<b>40.EXX5</b> Trailer Brake IFR Male	<b>40.EXX6</b> Trailer Brake IFR Female

## Balflex® SCREW VALVES

						
<b>40.VXX3</b> HPA 700 bar Screw Male Valve	<b>40.VXX4</b> HPA 700 bar Screw Female Valve	<b>40.CAX1</b> Screw Male	<b>40.CAX2</b> Screw Female	<b>40.NXX1</b> No Return Valve	<b>40.SXX1</b> Screw Male	<b>40.SXX2</b> Screw Female

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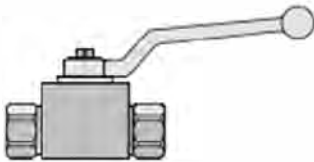
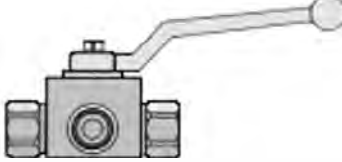
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# Balflex® Hydraulic Quick Couplings

## Balflex® DIRECTIONAL VALVES

	
<b>40.2XXB</b> 2-Way Ball Valve BKH	<b>40.3XXC</b> 3-Way Ball Valve

Showing **Balflex®** hydraulic quick coupling type with corresponding competitor's hydraulic quick coupling type

### Cross-reference for Hydraulic Quick Coupling

<b>Balflex®</b> 40 Serie type	A	B	C	D	F	N	P	T	V	S
<b>Aeroquip</b>	FD56	FD45	5100	FD76	FD89					5100
<b>Enerpac</b>									C-604	
<b>Faster</b>	ANV	HNV	CVE	NV / NS	2FFI		CPV / PV		PVVM	
<b>Gates</b>	G956	G945			G949					G951
<b>Parker</b>	6600	60	6100	4000 **	FEM	DC	4200		3000	6100
<b>Safeway</b>	S56	S10		S20			S70		S30	S51
<b>Snap-Tite</b>	61	72	78	60	74	CPIFF				
<b>Tema</b>								IB7500 *		
<b>Tomco</b>	A5600	THK	A5100							
<b>Tuthillh</b>	H	HK			FF					

\* IB 10000 for 1"

\*\* the Parker 4000 NPT thread ball valve dash size – 8 (1/2") for agricultural equipment, is **Balflex®** **40.A013.08** (male) and **40.A014.08** (female)

The information provided by this Cross-reference chart is intended as a reference guide only. These hydraulic quick couplings are similar but not exactly equal in all technical data and performances. Refer to hydraulic quick coupling specifications to assure that the suggested hydraulic quick coupling will attend the required application.

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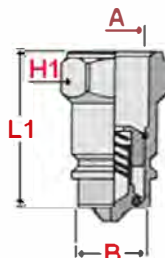
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# Balflex® Hydraulic Quick Couplings

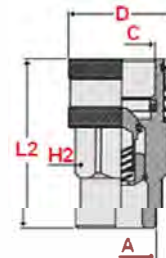


## Balflex® Quick-Action Couplings ISO type A (poppet valve)

quick-action coupling for high pressure hydraulic systems with poppet valve closure detail



**40.A001 - Male**



**40.A002 - Female**

According to ISO 7241-1 series A

According to ISO 5675 (sizes -08 and -12)



**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female BSP or NPT

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural and earth-moving machinery

part number male BSP	part number female BSP	nom. size	dash size	working pressure		dimensions (mm)							
				bar	PSI	A	B	H1	L1	C	D	H2	L2
40.A001.04	40.A002.04	6,3	- 4	350	5075	6,3	12	19	36	14	26	21	51
40.A001.06	40.A002.06	10	- 6	315	4568	9,5	17	22	41	18	32	24	59
40.A001.08	40.A002.08	12,5	- 8	300	4350	12,7	21	27	46	24	38	30	64
40.A001.12	40.A002.12	20	- 12	285	4133	19,0	29	36	56	31	48	38	84
40.A001.16	40.A002.16	25	- 16	285	4133	25,4	34	41	63	35	55	45	97
40.A001.20	40.A002.20	31,5	- 20	200	2900	32,0	45	50	75	48	70	60	117
40.A001.24	40.A002.24	40	- 24	160	2320	38,0	55	60	84	58	85	70	133
40.A001.32	40.A002.32	50	- 32	100	1450	50,8	65	75	100	70	100	75	161

also available:

### Balflex® Quick-Action Couplings ISO type A with NPT thread

(change to '1' the third digit of the type sequence; ex: 40.A011.08)

also available:

**Ball valves available for rugged dependability in heavy-duty hydraulic applications, within rated working pressure.**

#### For ball valve

<b>Balfit® Quick-Action Couplings ISO type A with BSP thread</b>	<b>Male – 40.A003.XX</b> <b>Female – 40.A004.XX</b>
<b>Balfit® Quick-Action Couplings ISO type A with NPTF thread</b>	<b>Male – 40.A013.XX</b> <b>Female – 40.A014.XX</b>

#### Repair Kit

<b>Balfit® Quick-Action Couplings ISO type A repair kit</b>	<b>O-Ring - NBR</b> <b>Seal - PTFE</b>	<b>40.AK01.XX</b>
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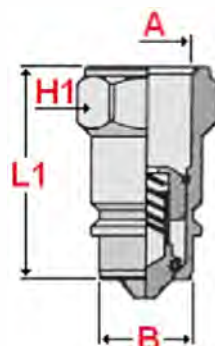
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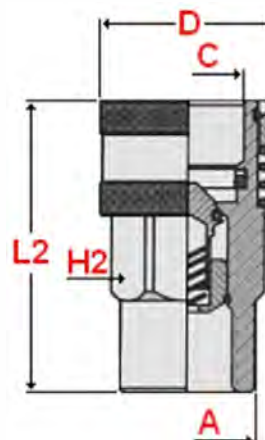
# Balflex® Hydraulic Quick Couplings

## Balflex® Quick-Action Couplings ISO type B (poppet valve)

quick-action coupling for high pressure hydraulic systems with poppet valve closure detail



**40.B001 - Male**



**40.B002 - Female**



According to **ISO 7241-1 series B**

**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female BSP or NPT

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural and earth-moving machinery

part number male BSP	part number female BSP	nom. size	dash size	working pressure		dimensions (mm)							
				bar	PSI	A	B	H1	L1	C	D	H2	L2
40.B001.02	40.B002.02	5	- 2	350	5000	3,2	11	16	32	12	22	17	49
40.B001.04	40.B002.04	6,3	- 4	350	5000	6,3	14	19	36	16	27	22	58
40.B001.06	40.B002.06	10	- 6	300	4350	9,5	19	24	41	20	35	27	66
40.B001.08	40.B002.08	12,5	- 8	280	4000	12,7	24	27	46	26	42	35	74
40.B001.12	40.B002.12	20	- 12	180	2600	19,0	31	36	56	33	52	41	90
40.B001.16	40.B002.16	25	- 16	150	2100	25,4	37	41	63	41	60	50	103

also available:

## Balflex® Quick-Action Couplings ISO type B with NPT thread (change to '1' the third digit of the type sequence; ex: 40.B011.08)

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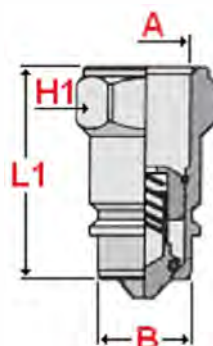


# Balflex® Hydraulic Quick Couplings

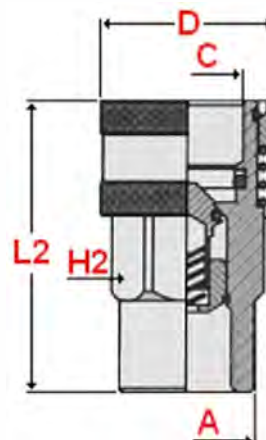


## Balflex® Quick-Action Couplings DIN type (poppet valve)

quick-action coupling for high pressure hydraulic systems with poppet valve closure detail



**40.D001 - Male**



**40.D002 - Female**



**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female BSP or NPT

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural and earth-moving machinery

part number male BSP	part number female BSP	nom. size	dash size	working pressure		dimensions (mm)							
				bar	PSI	A	B	H1	L1	C	D	H2	L2
40.D001.04	40.D002.04	6,3	- 4	350	5000	6,4	14,2	19	36	16,9	27	22	54
40.D001.06	40.D002.06	10	- 6	300	4300	9,5	19,0	24	41	21,6	34	27	61
40.D001.12	40.D002.12	20	- 12	250	3600	19,1	28,0	36	56	31,1	48	38	85
40.D001.16	40.D002.16	25	- 16	230	3300	25,4	31,3	41	63	34,6	55	45	97
40.D001.20	40.D002.20	31,5	- 20	220	3200	31,8	44,0	50	75	48,5	70	50	115

note : for dash size - 8 (1/2"), which is interchangeable with ISO type A, refer to parts 40.A001.08 and 40.A002.08

## Balflex® Quick-Action Couplings DIN type with NPT thread

(change to '1' the third digit of the type sequence; ex: 40.D011.06)

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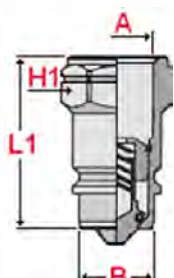
# Balflex® Hydraulic Quick Couplings

## Balflex® Push-Pull TRACTOR Quick-Action Couplings ISO type A (poppet valve)

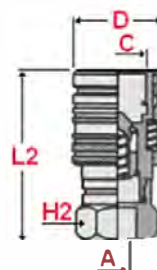
quick-action coupling with push pull action for high pressure hydraulic systems with poppet valve closure detail and female threaded connections

double acting sleeve for one handed push-to-connect operation when coupler is clamp or bulkhead mounted

### AGRICULTURAL QUICK COUPLING



40.A001 / 40.A011 - Male



40.P002 / 40.P012 - Female



According to ISO 7241-1 series A

According to ISO 5675

**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female BSP or NPT

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural machinery

part number male	part number female	threaded connection	working pressure		dimensions (mm)						
		A	bar	PSI	B	H1	L1	C	D	H2	L2

#### with BSP thread

40.A001.08	40.P002.08	1/2" BSP	300	4350	21	30	58	24	38	30	74
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#### with NPT thread

40.A011.08	40.P012.08	1/2" NPT	300	4350	21	30	58	24	38	30	74
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note : Also available with UNF or Metric Thread

### Repair Kit

<b>Balfit® Push-Pull TRACTOR Quick-Action Coupling ISO type A repair kit</b>	<b>O-Ring - NBR Seal - PTFE</b>	<b>40.AK01.XX</b>
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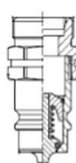
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# Balfit® Hydraulic Quick Couplings

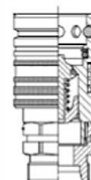


## Balfit® Push-Pull TRACTOR Quick-Action Couplings ISO type A (poppet valve)

*quick-action coupling with push pull action for high pressure hydraulic systems with poppet valve closure detail and male threaded connections*



**40.A131 - Male**



**40.P132 - Female**

According to **ISO 7241-1 series A**  
According to **ISO 5675**



**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** male metric

**Valve closure detail :** poppet valve

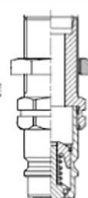
**Maximum operating temperature :** + 98°C / 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / -4°F (other materials for lower temperatures as special features)

**Application :** agricultural machinery

Part Number Male	Part Number Female	nom. size	dash size	rated working pressure		dimensions (mm)							
				MPa	PSI	A	B	H1	L1	C	D	H2	L2
40.A131.0816	40.P132.0816	12,5	- 8	25,0	3600	10L	20,5	27	56	23,8	37,8	27	72
40.A131.0818	40.P132.0818	12,5	- 8	25,0	3600	12L	20,5	27	56	23,8	37,8	27	72
40.A131.0822	40.P132.0822	12,5	- 8	25,0	3600	15L	20,5	27	56	23,8	37,8	27	72
40.A131.0826	40.P132.0826	12,5	- 8	25,0	3600	18L	20,5	27	56	23,8	37,8	27	72

*quick-action coupling with push pull action for high pressure hydraulic systems with poppet valve closure detail and bulkhead male threaded connections*



**40.A231 – Male Bulkhead**



**40.P232 – Female Bulkhead**

Part Number Male	Part Number Female	nom. size	dash size	rated working pressure		dimensions (mm)							
				MPa	PSI	A	B	H1	L1	C	D	H2	L2
40.A231.0816	40.P232.0816	12,5	- 8	25,0	3600	10L	20,5	27	68	23,8	37,8	27	84
40.A231.0818	40.P232.0818	12,5	- 8	25,0	3600	12L	20,5	27	68	23,8	37,8	27	84
40.A231.0822	40.P232.0822	12,5	- 8	25,0	3600	15L	20,5	27	68	23,8	37,8	27	84
40.A231.0826	40.P232.0826	12,5	- 8	25,0	3600	18L	20,5	27	68	23,8	37,8	27	84

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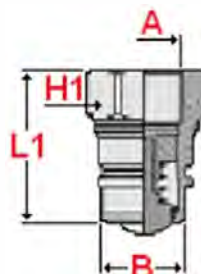


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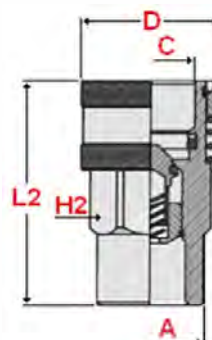
## Balflex® AGRI Quick-Action Couplings (ball valve)

quick-action coupling for high pressure hydraulic systems with ball valve closure detail and female threaded connections

### AGRICULTURAL QUICK COUPLING



**40.A013 / 40.A003 - Male**



**40.A014 / 40.A004 - Female**



**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female NPT or BSP

**Valve closure detail :** ball valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural machinery

part number male	part number female	threaded connection	working pressure		dimensions (mm)						
		A	bar	PSI	B	H1	L1	C	D	H2	L2

#### with NPT thread

40.A013.08	40.A014.08	1/2" NPT	300	4350	21	30	58	24	38	30	74
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#### with BSP thread

40.A003.08	40.A004.08	1/2" BSP	300	4350	21	30	58	24	38	30	74
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# Balflex<sup>®</sup> Hydraulic Quick Couplings



## Balfit<sup>®</sup> Quick Coupling Dust Cup

*For Agricultural 1/2" quick couplings*



**40.0002.08 – Female Dust Cup**



**40.0001.08 – Male Dust Cup**

*For protect quick coupling males (40.A001.08 and 40.A011.08)*

*For protect quick coupling females (40.P002.08 and 40.P012.08)*

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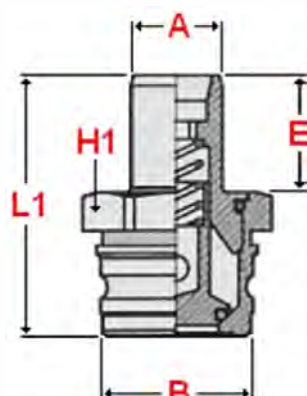
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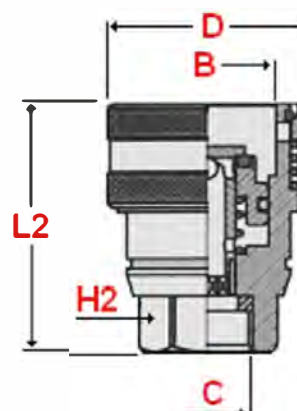
# Balflex® Hydraulic Quick Couplings

## Balflex® Quick-Action Trailer Brake IFR Couplings

quick-action couplings for high pressure hydraulic systems with flat low spillage closure detail



**40.E005 - Male**



**40.E006 - Female**



According to **ISO 5676**

**Materials:** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** female BSP

**Valve closure detail :** flat face

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** agricultural machinery brake systems

part number male	nominal size	part number female	nominal size	working pressure		dimensions (mm)						
	A		C	bar	PSI	B	H1	L1	C	D	H2	L2
40.E005.0808	1/2"	40.E006.0806	3/8"	220	3200	30	31	32	59	45	27	55
40.E005.0808	1/2"	40.E006.0808	1/2"	220	3200	30	15	32	43	45	27	55

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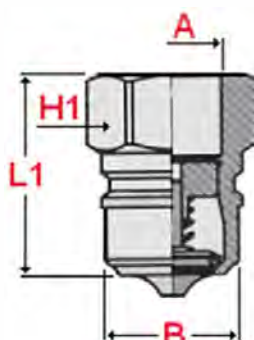
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# Balflex® Hydraulic Quick Couplings

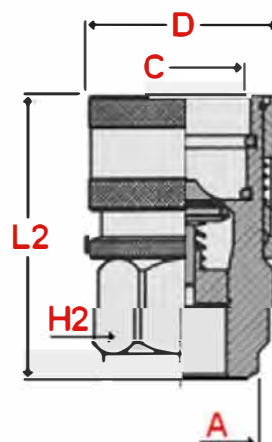


## Balflex® Quick-Action High Flow Valve (poppet valve)

quick-action couplings for high flow high pressure hydraulic systems with cone closure detail



**40.T001 - Male**



**40.T002 - Female**



Type **TEMA**

**Materials :** carbon steel body, zinc plated, with synthetic rubber sealing rings

**Threads :** female BSP

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** high flow industrial machinery with limited pressure drop

**Special features :** security ring that locks the coupling when closed and two sealing rings

part number male	part number female	nom. size	dash size	working pressure		dimensions (mm)							
				bar	PSI	A	B	H1	L1	C	D	H2	L2
40.T001.12	40.T002.12	19	3/4"	250	3600	19,1	32,7	36	56	34,8	52	42	85
40.T001.16	40.T002.16	25	1"	250	3600	25,4	40,7	46	63	43,5	65	55	99

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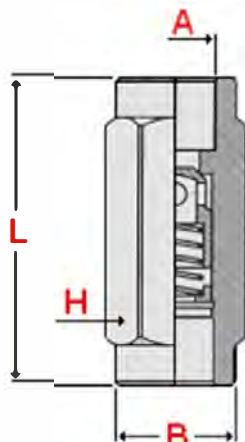
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# Balflex® Hydraulic Quick Couplings

## Balflex® No Return Valve

no return valve for high pressure hydraulic systems



**40.N001 – No Return Valve**



**Materials:** carbon steel body, zinc plated

**Threads :** female BSP

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 120°C / + 248°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** high pressure hydraulic lines

part number	nominal size A		working pressure		dimensions (mm)		
	mm	inch	bar	PSI	B	H	L
40.N001.02	3	1/8"	300	4 300	14	14	44
40.N001.04	6	1/4"	300	4 300	19	19	56
40.N001.06	10	3/8"	300	4 300	22	24	70
40.N001.08	12	1/2"	300	4 300	30	30	77
40.N001.12	19	3/4"	300	4 300	35	36	90
40.N001.16	25	1"	300	4 300	45	45	106
40.N001.20	32	1-1/4"	300	4 300	54	55	125
40.N001.24	40	1-1/2"	300	4 300	64	65	140
40.N001.32	50	2"	200	2 900	74	75	160

also available:

## Balflex® No Return Valve with NPT thread

(change to '1' the third digit of the type sequence; ex: 40.N011.08)

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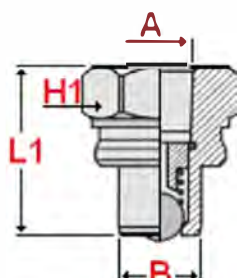


# Balflex® Hydraulic Quick Couplings

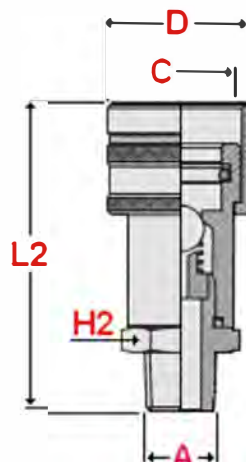


## Balflex® HPA Screw Couplings

screw couplings for very high pressure hydraulic systems



**40.V013 - Male**



**40.V114 - Female**



Type **ENERPAC**

**Materials:** carbon steel body, zinc plated

**Threads :** NPT

**Valve closure detail :** ball

**Maximum operating temperature :** + 120°C / + 248°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** very high pressure hydraulic lines of industrial equipment

part number male	part number female	nominal size A		working pressure		dimensions (mm)						
		mm	inch	bar	PSI	B	H1	L1	C	D	H2	L2
40.V013.04	40.V114.04	6	1/4"	700	10 000	16	27	39	16	30	19	67
40.V013.06	40.V114.06	10	3/8"	700	10 000	19	32	39	19	35	24	74

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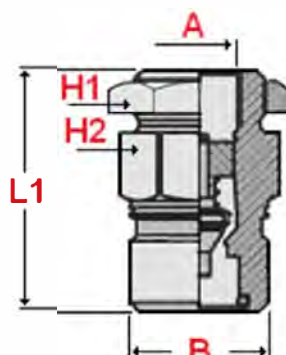
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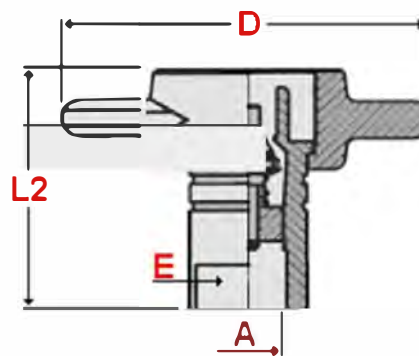
# Balflex® Hydraulic Quick Couplings

## Balflex® Screw Valves

screwing valves for high pressure hydraulic systems



**40.CA01 - Male**



**40.CA02 - Female**



**Materials:** carbon steel body, zinc plated

**Threads :** female BSP

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 20°C / - 4°F (other materials for lower temperatures as special features)

**Application :** high pressure hydraulic lines of industrial vehicles and agricultural equipment

**Special features :** connection and disconnection by hand are possible at low pressure

part number male	part number female	nominal size A		working pressure		dimensions (mm)						
		mm	inch	bar	PSI	B	H1	H2	L1	E	L2	D
40.CA01.12	40.CA02.12	19	3/4"	250	3600	44	50	46	78	33	78	117
40.CA01.16	40.CA02.16	25	1"	250	3600	53	50	55	83	40	83	117

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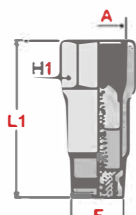
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# Balflex® Hydraulic Quick Couplings



## Balflex® Flat Face Quick-Action Couplings ISO 16028

flat face couplings for high pressure hydraulic systems without any fluid leakage



40.F005 / 40.F015 / 40.F025 - Male



40.F006 / 40.F016 / 40.F026 - Female

### NON-SPILL COUPLING



According to ISO 16028

**Materials:** carbon steel body, zinc plated, with synthetic rubber sealing rings and PTFE holding rings

**Threads :** BSP, NPT, UNF

**Valve closure detail :** flat face

**Maximum operating temperature :** + 125°C / + 257°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 25°C / - 13°F (other materials for lower temperatures as special features)

**Application :** industrial equipment and agricultural equipment

part number male	part number female	thread	working pressure		dimensions (mm)					
			A	bar	PSI	F	L1	H1	D	L2
40.F005.04	40.F006.04	1/4" BSP	315	4560	16.2	85.5	22	28	85.5	22
40.F005.0406	40.F006.0406	3/8" BSP	315	4560	16.2	85.5	22	28	85.5	22
40.F005.06	40.F006.06	3/8" BSP	300	4350	19.8	116.5	24	32	116.5	27
40.F005.0608	40.F006.0608	1/2" BSP	300	4350	19.8	116.5	24	32	116.5	27
40.F005.08	40.F006.08	1/2" BSP	250	3600	24.5	134.5	27	38	134.5	32
40.F005.0812	40.F006.0812	3/4" BSP	250	3600	24.5	134.5	27	38	134.5	32
40.F005.12	40.F006.12	3/4" BSP	250	3600	27.0	132.0	36	42	132.0	36
40.F005.16	40.F006.16	1" BSP	250	3600	30.0	154.0	45	48	154.0	45
40.F005.20	40.F006.20	1.1/4" BSP	250	3600	36.0	173.0	55	55	173.0	55
40.F005.24	40.F006.24	1.1/2" BSP	200	2900	57.0	215.0	70	80	215.0	65
40.F005.32	40.F006.32	2" BSP	180	2600	73.0	230.0	75	100	230.0	80
40.F015.04	40.F016.04	1/4" NPT	315	4560	16.2	85.5	22	28	85.5	22
40.F015.0406	40.F016.0406	3/8" NPT	315	4560	16.2	85.5	22	28	85.5	22
40.F015.06	40.F016.06	3/8" NPT	300	4350	19.8	116.5	24	32	116.5	27
40.F015.0608	40.F016.0608	1/2" NPT	300	4350	19.8	116.5	24	32	116.5	27
40.F015.08	40.F016.08	1/2" NPT	250	3600	24.5	134.5	27	38	134.5	32
40.F015.0812	40.F016.0812	3/4" NPT	250	3600	24.5	134.5	27	38	134.5	32
40.F015.12	40.F016.12	3/4" NPT	250	3600	27.0	132.0	36	42	132.0	36
40.F015.16	40.F016.16	1" NPT	250	3600	30.0	154.0	45	48	154.0	45
40.F015.20	40.F016.20	1.1/4" NPT	250	3600	36.0	173.0	55	55	173.0	55
40.F015.24	40.F016.24	1.1/2" NPT	200	2900	57.0	215.0	70	80	215.0	65
40.F015.32	40.F016.32	2" NPT	180	2600	73.0	230.0	75	100	230.0	80
40.F025.0608	40.F026.0608	3/4"-16 UNF	300	4350	19.8	116.5	24	32	116.5	27
40.F025.0610	40.F026.0610	7/8"-14 UNF	300	4350	19.8	116.5	24	32	116.5	27
40.F025.08	40.F026.08	3/4"-16 UNF	300	4350	24.5	134.5	27	38	134.5	32
40.F025.0812	40.F026.0812	1.1/16"-12 UNF	250	3600	24.5	134.5	27	38	134.5	32
40.F025.12	40.F026.12	1.1/16"-12 UNF	250	3600	27.0	132.0	36	42	132.0	36
40.F025.16	40.F026.16	1.5/16"-12 UNF	250	3600	30.0	154.0	45	48	154.0	45

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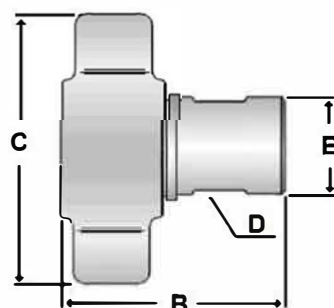
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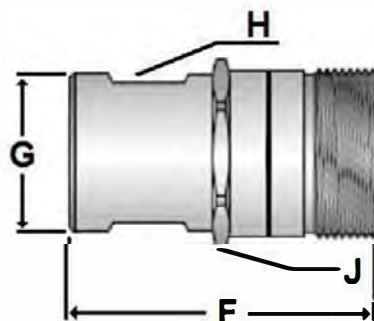
# Balflex® Hydraulic Quick Couplings

## Balfit® Screw Valves

(screwing valves for high pressure hydraulic systems)



**40.S001 – Wing Nut**



**40.S002 - Nipple**



**Materials:** brass body, zinc plated

**Threads :** female NPTF

**Valve closure detail :** poppet valve

**Maximum operating temperature :** + 120°C / 250°F

**Minimum operating temperature :** - 4°C / -40°F

**Application :** Applications include "wet-line-kits" used widely on dump trailers, mobile drilling rigs, mining equipment, large mobile equipment, salt spreaders, and chemical transfer units.

**Special features :** Connection and disconnection by hand are possible at low pressure

Part Number Wing Nut	Part Number Nipple	nominal size		rated working pressure*		dimensions (mm)							
		mm	inch	MPa	PSI	B	C	D	E	F	G	H	J
40.S001.12	40.S002.12	19	3/4"	20.7	3000	69	103	29	32	77	35	29	41
40.S001.16	40.S002.16	25	1"	20.7	3000	84	111	36	39	84	44	36	48
40.S001.20	40.S002.20	32	1.1/4"	17.2	2500	93	132	45	48	87	53	48	54

(\* Minimum burst pressure is equal to 3 times the rated pressure. Not recommended for continuous hydraulic impulse applications at rated pressure)

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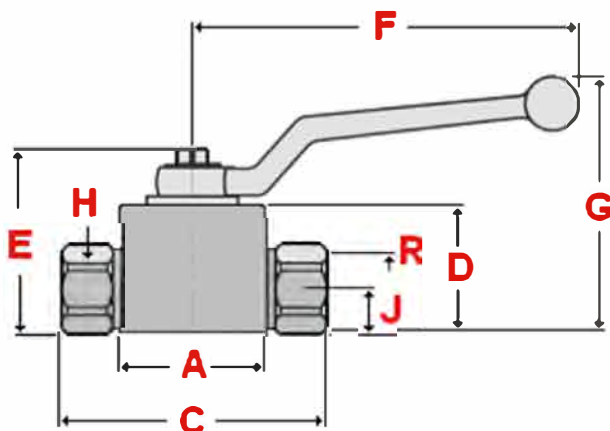
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# Balflex® Hydraulic Ball Valves



## Balflex® 2-Way Directional Ball Valve - (BKH)

carbon steel ball valve for shut off of high pressure hydraulic lines



### 40.200B – 2-Way Ball Valve BSP or NPT Female

Directional Scheme:



**Function :** 2-way ball valve for shut off of hydraulic lines

**Materials :** carbon steel body, zinc plated; zamak handle, plated

**Threads :** female BSP or NPT

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 0°C / + 32°F (other materials for lower temperatures as special features)

**Application :** high pressure hydraulic lines, agricultural equipment, mining industry, paint industry

part number	nominal size	working pressure		dimensions (mm)								
	inch	bar	PSI	R	A	C	D	E	F	G	H	J
40.200B.04	1/4"	500	7250	1/4"	40	72	35	47	110	64	22	13
40.200B.06	3/8"	500	7250	3/8"	45	75	40	52	110	69	27	16
40.200B.08	1/2"	500	7250	1/2"	50	85	45	56	110	76	30	18
40.200B.12	3/4"	250	3600	3/4"	60	93	58	75	150	96	41	23
40.200B.16	1"	250	3600	1"	65	114	65	86	150	104	46	28

also available:

### Balflex® 2-Way Directional Ball Valve with NPT thread

(change to '1' the third digit of the type sequence; ex: 40.201B.08)

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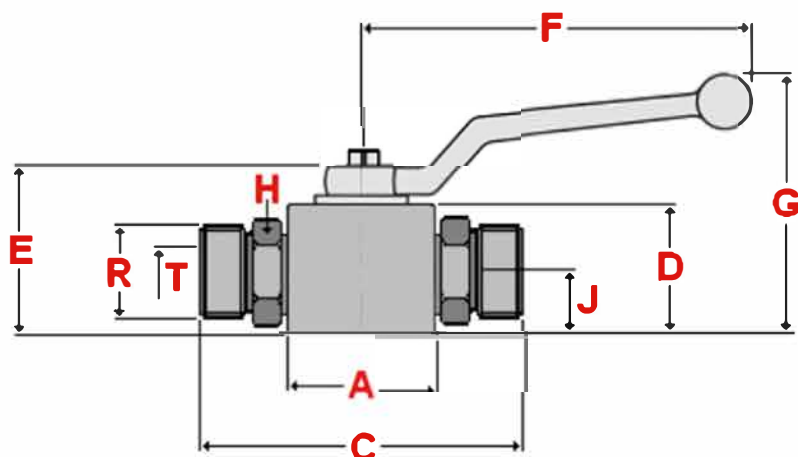




# Balflex® Hydraulic Ball Valves

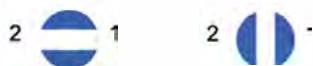
## Balflex® 2-Way Directional Ball Valve - (BKH)

carbon steel ball valve for shut off of high pressure hydraulic lines



### 40.202B L / S – 2-Way Ball Valve Metric Male

Directional Scheme:



**Function :** 2-way ball valve for shut off of hydraulic lines

**Materials :** carbon steel body, zinc plated; zamak handle, plated

**Threads :** metric male

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 0°C / + 32°F (other materials for lower temperatures as special features)

**Application :** high pressure hydraulic lines, agricultural equipment, mining industry, paint industry

part number	nominal size	working pressure		dimensions (mm)								
		bar	PSI	R	T	C	D	E	F	G	H	J
40.202L.0512	- 5	500	7250	M12x1.5	6L	40	35	45.5	105.5	71	26	13
40.202L.0614	- 6	500	7250	M14x1.5	8L	40	35	45.5	105.5	71	26	13
40.202L.0816	- 8	500	7250	M16x1.5	10L	45	35	50.5	105.5	76	32	16
40.202S.0820	- 8	500	7 250	M20x1.5	12S	45	35	50.5	105.5	76	32	16
40.202S.1324	- 13	500	7 250	M24x1.5	16S	50	45	55.5	105.5	81	35	17.5
40.202S.1330	- 13	250	3 600	M30x2.0	20S	50	45	55.5	105.5	81	35	17.5
40.202S.2036	- 20	250	3 600	M36x2.0	25S	60	58	73	159.5	108	50	23
40.202S.2542	- 25	250	3 600	M42x2.0	30S	65	65	80	159.5	115	57	27.5

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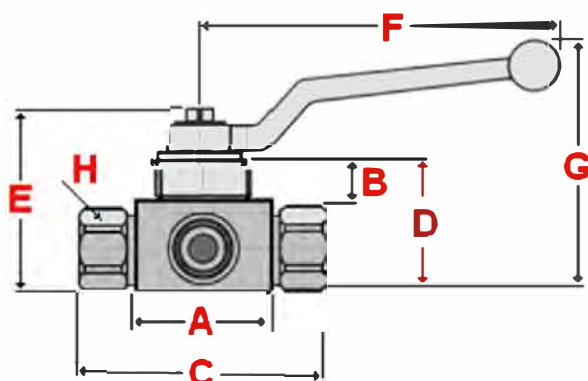
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# Balflex® Hydraulic Ball Valves



## Balflex® 3-Way Directional Ball Valve

carbon steel ball valve for direction command and shut off of high pressure hydraulic lines



### 40.3L0C - 3-Way Ball Valve L-shape

with threaded collar

### 40.3T0C - 3-Way Ball Valve T-shape

with threaded collar

Directional Scheme:

L-shape



T-shape



always connect  
pressure line to 2

**Function :** 3-way ball valve for direction or shut off of hydraulic lines

**Materials :** carbon steel body, zinc plated; zamak handle, plated

**Threads :** Female BSP on ports 3 & 1; male BSP on port 2 (other threads on request)

**Maximum operating temperature :** + 98°C / + 208°F (other materials for higher temperatures as special features)

**Minimum operating temperature :** - 0°C / + 32°F (other materials for lower temperatures as special features)

**Application :** high pressure hydraulic lines, agricultural equipment, mining industry, paint industry

part number	nominal size	working pressure		dimensions (mm)								
	inch	bar	PSI	R	A	B	C	D	E	F	G	H
40.3L0C.04	1/4"	500	7250	1/4"	40	8	72	35	47	110	64	22
40.3L0C.06	3/8"	500	7 250	3/8"	45	8	75	40	52	110	69	27
40.3L0C.08	1/2"	500	7 250	1/2"	50	10	85	45	56	110	76	30
40.3L0C.12	3/4"	250	3 600	3/4"	60	12	93	58	75	150	96	41
40.3L0C.16	1"	250	3 600	1"	65	12	114	65	86	150	104	46
40.3T0C.04	1/4"	500	7250	1/4"	40	8	72	35	47	110	64	22
40.3T0C.06	3/8"	500	7 250	3/8"	45	8	75	40	52	110	69	27
40.3T0C.08	1/2"	500	7 250	1/2"	50	10	85	45	56	110	76	30
40.3T0C.12	3/4"	250	3 600	3/4"	60	12	93	58	75	150	96	41
40.3T0C.16	1"	250	3 600	1"	65	12	114	65	86	150	104	46

also available:

### Balflex® 3-Way Directional Ball Valve with NPT thread

(change to '1' the third digit of the type sequence; ex: 40.3L1C.08 and 40.3L1T.08)

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