Series HP

Technical information

Nominal bore [mm]	Cv value		Q [L/min] water 20 °C, Δp = 1 bar / 15 psi		Q [m³/h] air 6 bar abs / 87psia, 20 °C, Δp = 1 bar / 15 psi		p max. permissible static [bar / psi]		
	EA	BA	EA	BA	EA	BA	Steel coupled	Stainless steel coupled	Stainless steel 1.4404/1.4571 with 1.4418 QT900* coupled
4	0.40	0.20	5.71	3.43	20.24	12.15	2,000 / 29,000**	520 / 7,540	1,000 / 14,500
6	1.00	0.70	14.28	9.28	50.61	32.89	1,000 / 14,500	345 / 5,000	690 / 10,000
10	2.50	1.90	35.70	27.13	126.52	96.15	600 / 8,700	345 / 5,000	520 / 7,540
16	8.10	5.50	115.68	78.55	409.92	278.34	500 / 7,250	250 / 3,625	450 / 6,530
20	13.00	8.50	185.65	121.39	657.89	430.16	400 / 5,800	210 / 3,045	350 / 5,080
32	29.40	23.80	419.86	339.89	1,487.84	1,204.44	300 / 4,350	210 / 3,045	250 / 3,625
50		65.00		928.27		3,289.44	200 / 2,900		

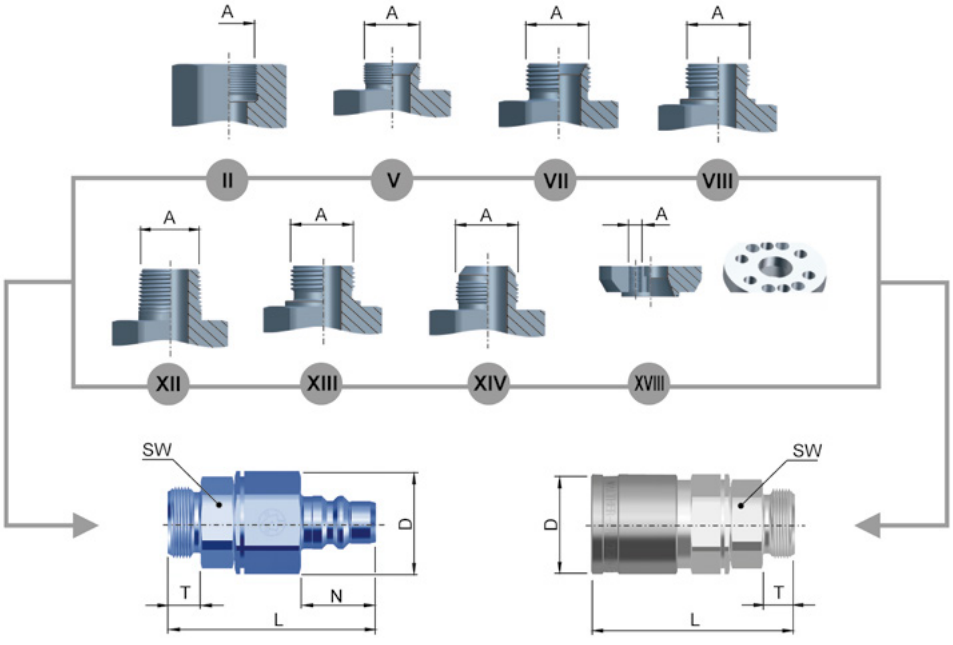
Sealing on one side (EA); sealing on both sides (BA). The pressure specifications apply at a temperature of 20 °C. Other temperature ranges on request.
* For seawater-resistant versions the material 1.4418 can be replaced with S 20910 / 1.3964. Special designs for 1000 bar / 15.000 psi or 690 bar / 10.000 psi up to NW16. ** 3,000 bar / 43,500 psi optional.
The maximum permissible operating pressures specified here (p max. permissible static) for the quick coupling systems apply exclusively to the materials stated by us and operation with Group II media according to Directive 2014/68/EU. The use of optional materials, other media (especially media from Group I) or other temperature ranges can lead to deviating maximum permissible operating pressures and must be requested separately at your supplier or directly at WALTHER-PRÄZISION.

Please note that both the maximum permissible operating pressure of the quick coupling system and the maximum permissible operating pressure of the connection must be considered in determining the plant operating pressure. Our safety instructions must be followed. You can find the safety instructions on page 22 of this catalogue.

If you have additional questions or need further information, please consult either your supplier or WALTHER-PRÄZISION directly.

◂◂◂ To view the performance diagram please click here.

To view the connection description ▸▸▸ please click here.



Self-sealing adaptor (male)

Self-sealing coupling (female)

Product design features

Intended use: High pressure quick coupling system for a wide range of applications, for the transmission of fluid or gaseous media in an industrial / commercial environment.

Properties	Werkstoffe	Dichtungen	Zusatzausstattungen
- Vibration protection - Suitable for a very high number of load cycles (up to 1 million) **- Higher pressure version on request** Also available in breakaway applications.	12 = Steel oil burnished **Optional** 01 = Stainless steel 1.4404/1.4571 or similar 13 = Steel chemically nickel plated W1 = 1.4404/1.4571, Self-sealing adaptor-forepart 1.4418 QT900	1 = NBR 2 = FKM **Optional** 4 = EPDM (not for 12 = oil-burnished steel) FFKM	**From HP-006 optional:** 0V* = Without valve SI** = Additional axial safety locking device RV = With ring valve (Cannot be coupled with standard valves) Recommended for high pulsating pressures and harsh operating conditions **HP-020** GG = With ring grips Ø 130 (aluminium cast) **HP-032** GG = With ring grips Ø 190 (aluminium cast) **HP-050** GG = With ring grips Ø 220 (aluminium cast)

* HP-004-2-...-OV not connectable with HP-004-0-...
**HP-006: SI – Outside diameter 38 mm HP-010: SI – Outside diameter 50 mm HP-016: SI – Outside diameter 62 mm
HP-020: SI – Outside diameter 68 mm HP-032: SI – Outside diameter 96 mm

Note: For Type HP-010, Type 12-010 is the second non-interchangeable version available.
Suitable protection elements can be found in this catalogue from p. 180.

Attention: GG and SI cannot be combined = Special version - please enquire
Self-sealing coupling + OV ≙ Product type Thru-type coupling; Self-sealing adaptor + OV ≙ Product type Thru-type adaptor

Order number configuration

HP-004-0-NP013-Material-Seal-Additional options-Y../-Z..

Product chart



NB	Product type	A	De-sign	Ran-ge	Pipe AD	Pipe ID	SW	T	D	L	N	Weight Steel	Material-neutral part number
4	Self-sealing coupling (female)	NPT 1/4"	XII				22	14	30	71.5		220	HP-004-0-NP013-..-.

NB - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

Series HP

KUNDENFAVORIT

Product chart

NB	Product type	A	De-sign	Ran-ge	Pipe AD	Pipe ID	SW	T	D	L	N	Weight Steel	Material-neutral part number
4	Self-sealing coupling (female)	NPT 1/4"	XIII				22	14	30	68.5		230	HP-004-0-NP513-..-.
4	Self-sealing coupling (female)	BSPP 1/4 A with 60° sealing cone	VII			2	22	12	30	69.5		220	HP-004-0-XX001-..-.
4	Self-sealing coupling (female)	UNF 9/16 with 58° sealing cone	XIV			2	22	18	30	75.5		220	HP-004-0-XX002-..-.
4	Thru-type adaptor (male)	UNF 9/16 with 58° sealing cone	XIV			2	17	18	18.9	51	25.5	45	HP-004-1-XX002-..
4	Self-sealing adaptor (male)	NPT 1/4"	XII				22	14	30	71.5	25.5	160	HP-004-2-NP013-..-.
4	Self-sealing adaptor (male)	NPT 1/4"	XIII				22	14	30	68.5	25.5	170	HP-004-2-NP513-..-.
4	Self-sealing adaptor (male)	BSPP 1/4 A with 60° sealing cone	VII			2	22	12	30	69.5	25.5	160	HP-004-2-XX001-..-.
4	Self-sealing adaptor (male)	UNF 9/16 with 58° sealing cone	XIV			2	22	18	30	75.5	25.5	160	HP-004-2-XX002-..-.
6	Self-sealing coupling (female)	M 14 x 1.5	V			6	30	10	34	75.5		300	HP-006-0-D0614-..-.
6	Self-sealing coupling (female)	M 16 x 1.5	V			8	30	11	34	76.5		300	HP-006-0-D0816-..-.
6	Self-sealing coupling (female)	NPT 3/8"	XII			6	30	15	34	80.5		260	HP-006-0-NP017-..-.
6	Self-sealing coupling (female)	NPT 3/8"	XIII			6	30	15	34	81.5		320	HP-006-0-NP517-..-.
6	Self-sealing coupling (female)	M 16 x 1.5	III	S	8	4	30	12	34	77.5		320	HP-006-0-S0816-..-.
6	Self-sealing coupling (female)	M 18 x 1.5	III	S	10	6	30	12	34	77.5		310	HP-006-0-S1018-..-.
6	Self-sealing coupling (female)	M 20 x 1.5	III	S	12	8	30	12	34	77.5		330	HP-006-0-S1220-..-.
6	Self-sealing coupling (female)	BSPP 3/8"	VII			6	30	12	34	77.5		250	HP-006-0-VR017-..-.
6	Self-sealing coupling (female)	BSPP 3/8"	VIII			6	30	12	34	80		320	HP-006-0-WB017-..-.
6	Self-sealing coupling (female)	BSPP 3/8"	II			6	30	15	34	75		350	HP-006-0-WR517-..-.
6	Thru-type adaptor (male)	BSPP 3/8"	VIII			6	22	12	25	54	30.5	70	HP-006-1-WB017-..
6	Self sealing adaptor (male)	M 14 x 1.5	V			6	30	10	34	75.5	30.5	190	HP-006-2-D0614-..-.

NB - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

Product chart

NB	Product type	A	De-sign	Ran-ge	Pipe AD	Pipe ID	SW	T	D	L	N	Weight Steel	Material-neutral part number
6	Self-sealing adaptor (male)	M 16 x 1.5	V			8	30	11	34	76.5	30.5	190	HP-006-2-D0816-..-.
6	Self-sealing adaptor (male)	NPT 3/8"	XII			6	30	15	34	80.5	30.5	220	HP-006-2-NP017-..-.
6	Self-sealing adaptor (male)	NPT 3/8"	XIII			6	30	15	34	81.5	30.5	240	HP-006-2-NP517-..-.
6	Self-sealing adaptor (male)	M 16 x 1.5	III	S	8	4	30	12	34	77.5	30.5	210	HP-006-2-S0816-..-.
6	Self-sealing adaptor (male)	M 18 x 1.5	III	S	10	6	30	12	34	77.5	30.5	200	HP-006-2-S1018-..-.
6	Self-sealing adaptor (male)	M 20 x 1.5	III	S	12	8	30	12	34	77.5	30.5	220	HP-006-2-S1220-..-.
6	Self-sealing adaptor (male)	BSPP 3/8"	VII			6	30	12	34	77.5	30.5	210	HP-006-2-VR017-..-.
6	Self-sealing adaptor (male)	BSPP 3/8"	VIII			6	30	12	34	80	30.5	210	HP-006-2-WB017-..-.
6	Self-sealing adaptor (male)	BSPP 3/8"	II			6	30	15	34	75	30.5	270	HP-006-2-WR517-..-.
10	Self-sealing coupling (female)	M 18 x 1.5	V			10	41	11	46	91.5		670	HP-010-0-D1018-..-.
10	Self-sealing coupling (female)	M 22 x 1.5	V			12	41	12	46	92.5		670	HP-010-0-D1222-..-.
10	Self-sealing coupling (female)	NPT 1/2"	XIII			10	41	18	46	100.5		850	HP-010-0-NP521-..-.
10	Self-sealing coupling (female)	M 20 x 1.5	III	S	12	8	41	12	46	92.5		670	HP-010-0-S1220-..-.
10	Self-sealing coupling (female)	M 22 x 1.5	III	S	14	10	41	14	46	94.5		670	HP-010-0-S1422-..-.
10	Self-sealing coupling (female)	M 24 x 1.5	III	S	16	12	41	14	46	94.5		680	HP-010-0-S1624-..-.
10	Self-sealing coupling (female)	BSPP 1/2"	VII			10	41	15	46	95.5		680	HP-010-0-VR021-..-.
10	Self-sealing coupling (female)	BSPP 1/2"	VIII			10	41	17	46	97.5		690	HP-010-0-WB021-..-.
10	Self-sealing coupling (female)	BSPP 1/2"	II			10	41	17	46	96.5		840	HP-010-0-WR521-..-.
10	Thru-type adaptor (male)	BSPP 1/2"	VIII			10	27	17	30	63	36	130	HP-010-1-WB021-..
10	Self-sealing adaptor (male)	M 18 x 1.5	V			10	41	11	46	91.5	36	450	HP-010-2-D1018-..-.
10	Self-sealing adaptor (male)	M 22 x 1.5	V			12	41	12	46	92.5	36	450	HP-010-2-D1222-..-.
10	Self-sealing adaptor (male)	NPT 1/2"	XIII			18	41	18	46	100.5	36	630	HP-010-2-NP521-..-.

NB - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

Series HP

KUNDENFAVORIT

Product chart

NB	Product type	A	De-sign	Ran-ge	Pipe AD	Pipe ID	SW	T	D	L	N	Weight Steel	Material-neutral part number
10	Self-sealing adaptor (male)	M 20 x 1.5	III	S	12	8	41	12	46	92.5	36	460	HP-010-2-S1220-..-.
10	Self-sealing adaptor (male)	M 22 x 1.5	III	S	14	10	41	14	46	94.5	36	460	HP-010-2-S1422-..-.
10	Self-sealing adaptor (male)	M 24 x 1.5	III	S	16	12	41	14	46	94.5	36	470	HP-010-2-S1624-..-.
10	Self-sealing adaptor (male)	BSPP 1/2"	VII			10	41	15	46	95.5	36	460	HP-010-2-VR021-..-.
10	Self-sealing adaptor (male)	BSPP 1/2"	VIII			10	41	17	46	97.5	36	470	HP-010-2-WB021-..-.
10	Self-sealing adaptor (male)	BSPP 1/2"	II			10	41	17	46	96.5	36	620	HP-010-2-WR521-..-.
16	Self-sealing coupling (female)	M 22 x 1.5	V			12	46	12	56	108.5		1,110	HP-016-0-D1222-..-.
16	Self-sealing coupling (female)	M 24 x 1.5	III	S	16	12	46	14	56	110.5		1,120	HP-016-0-S1624-..-.
16	Self sealing coupling (female)	M 30 x 2	III	S	20	16	46	16	56	112.5		1,140	HP-016-0-S2030-..-.
16	Self-sealing coupling (female)	BSPP 3/4"	VII			16	46	17	56	113.5		1,130	HP-016-0-VR026-..-.
16	Self-sealing coupling (female)	BSPP 3/4"	VIII			16	46	19	56	115.5		1,140	HP-016-0-WB026-..-.
16	Self-sealing coupling (female)	BSPP 3/4"	II			16	46	19	56	110.5		1,360	HP-016-0-WR526-..-.
16	Thru-type adaptor (male)	BSPP 3/4"	VIII			12	36	19	41	72	41	250	HP-016-1-WB026-..
16	Self-sealing adaptor (male)	M 22 x 1.5	V			12	46	12	56	107.5	41	760	HP-016-2-D1222-..-.
16	Self-sealing adaptor (male)	M 24 x 1.5	III	S	16	12	46	14	56	109.5	41	770	HP-016-2-S1624-..-.
16	Self-sealing adaptor (male)	M 30 x 2	III	S	20	16	46	16	56	111.5	41	790	HP-016-2-S2030-..-.
16	Self-sealing adaptor (male)	BSPP 3/4"	VII			16	46	17	56	112.5	41	780	HP-016-2-VR026-..-.
16	Self-sealing adaptor (male)	BSPP 3/4"	VIII			16	46	19	56	114.5	41	790	HP-016-2-WB026-..-.
16	Self-sealing adaptor (male)	BSPP 3/4"	II			16	46	19	56	109.5	41	1,000	HP-016-2-WR526-..-.
20	Self-sealing coupling (female)	M 26 x 1.5	V			15	55	12	62	110.5		1,400	HP-020-0-D1526-..-.
20	Self-sealing coupling (female)	M 30 x 1.5	V			19	55	14	62	112.5		1,410	HP-020-0-D1930-..-.
20	Self-sealing coupling (female)	M 36 x 2	III	S	25	20	55	18	62	116.5		1,440	HP-020-0-S2536-..-.

NB - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]

Product chart

NB	Product type	A	De-sign	Ran-ge	Pipe AD	Pipe ID	SW	T	D	L	N	Weight Steel	Material-neutral part number
20	Self-sealing coupling (female)	BSPP 1"	VII			20	55	20	62	118.5		1,450	HP-020-0-VR033-..-.
20	Self-sealing coupling (female)	BSPP 1"	VIII			20	55	21	62	119.5		1,450	HP-020-0-WB033-..-.
20	Self-sealing coupling (female)	BSPP 1"	II			20	55	23	62	123		1,720	HP-020-0-WR533-..-.
20	Thru-type adaptor (male)	BSPP 1"	VIII			20	41	21	45	74	43	310	HP-020-1-WB033-..
20	Self-sealing adaptor (male)	M 26 x 1.5	V			15	55	12	62	110.5	43	1,030	HP-020-2-D1526-..-.
20	Self-sealing adaptor (male)	M 30 x 1.5	V			19	55	14	62	112.5	43	1,040	HP-020-2-D1930-..-.
20	Self-sealing adaptor (male)	M 36 x 2	III	S	25	20	55	18	62	116.5	43	1,060	HP-020-2-S2536-..-.
20	Self-sealing adaptor (male)	BSPP 1"	VII			20	55	20	62	118.5	43	1,070	HP-020-2-VR033-..-.
20	Self-sealing adaptor (male)	BSPP 1"	VIII			20	55	21	62	119.5	43	1,070	HP-020-2-WB033-..-.
20	Self-sealing adaptor (male)	BSPP 1"	II			20	55	23	62	123	43	1,340	HP-020-2-WR533-..-.
32	Self-sealing coupling (female)	M 38 x 2	V			25	80	14	90	133.5		3,690	HP-032-0-D2538-..-.
32	Self-sealing coupling (female)	M 45 x 1.5	V			32	80	16	90	135.5		3,680	HP-032-0-D3245-..-.
32	Self-sealing coupling (female)	M 52 x 2	III	S	38	32	80	22	90	141.5		3,790	HP-032-0-S3852-..-.
32	Self-sealing coupling (female)	BSPP 1 1/2"	VIII			32	80	25	90	144.5		3,790	HP-032-0-WB048-..-.
32	Thru-type adaptor (male)	BSPP 1 1/2"	VIII			32	55	25	61.5	90.5	49.5	690	HP-032-1-WB048-..
32	Thru-type adaptor (male)	BSPP 2"	VIII			32	75	27	86	92.5	49.5	1,190	HP-032-1-WB060-..
32	Self-sealing adaptor (male)	M 38 x 1.5	V			25	80	14	90	133	49.5	2,630	HP-032-2-D2538-..-.
32	Self-sealing adaptor (male)	M 45 x 1.5	V			32	80	16	90	135	49.5	2,620	HP-032-2-D3245-..-.
32	Self-sealing adaptor (male)	M 52 x 2	III	S	38	32	80	22	90	141	49.5	2,730	HP-032-2-S3852-..-.
32	Self-sealing adaptor (male)	BSPP 1 1/2"	VIII			32	80	25	90	144	49.5	2,740	HP-032-2-WB048-..-.
50	Self-sealing coupling (female)	SAE-flange	XVIII		65	50			150	219		15,300	HP-050-0-XX007-..-.
50	Self-sealing adaptor (male)	SAE-flange	XVIII		65	50			150	217.5	87.5	11,400	HP-050-2-XX007-..-.

NB - Nominal bore [mm] **A** - Connection **SW** - Wrench size [mm] **T** - Thread length [mm] **D** - Diameter [mm] **L** - Length [mm] **N** - Adaptor length [mm] Weight [g]