



Series HP



Technical chart | Quick coupling systems

Nominal bore [mm]	Cv value		Q [L/min] water 20 °C, Δp = 1 bar		Q [m³/h] air 6 bar, 20 °C, Δp = 1 bar		p max. permissible static [bar / psi]		
	EA	BA	EA	BA	EA	BA	Steel	Stainless steel	Stainless steel 1.4404/1.4571 with 1.4418 QT900*
							coupled	coupled	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		

One side self-sealing (EA). Both sides self-sealing (BA). The pressure values are applicable at a temperature of 20°C. Please inquire about other temperature ranges.

* For seawater-resistant designs, material 1.4418 can be replaced with S 20910/1.3964.

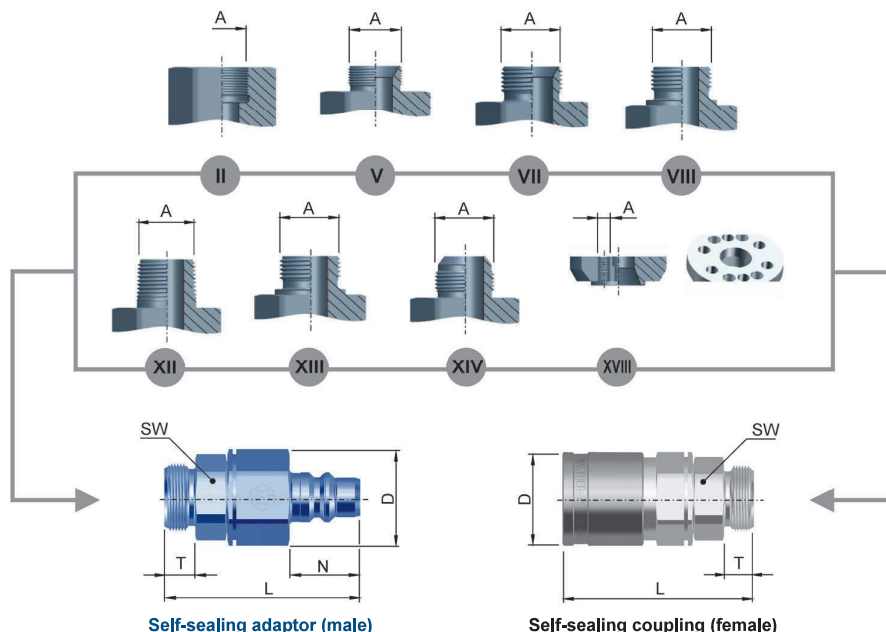
Special designs for 1000 or 690 bar are available up to NB 20.

Stated maximum permissible operating pressures (p max. permissible static) only apply to materials specified by us and to operation with group II media according to directive 2014/68/EU. Material combinations, optional materials, as well as other media or other temperature ranges can lead to divergent maximum permissible operating pressures and must be requested separately.

Please note that the maximum permissible operating pressure of the connection and quick coupling system must be considered when determining the operating pressure. Our safety instructions must be followed.

◀◀ The **performance diagram** can be found on the front catalogue fold-out page.

A detailed **connection description** can be found on the back catalogue fold-out page. ▶▶





Series HP

Features chart | Quick coupling systems

	Product features	Materials	Seals	Additional options
Standard		12 = Steel oil burnished	1 = NBR 2 = FKM 4 = EPDM	From HP-006 OV = 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
Optional	- Vibration safety device - Suitable for high pressure reversal (up to 1 million)	01 = Stainless steel 1.4404/1.4571 or similar 13 = Steel chemically nickel plated W1 = 1.4404/1.4571, Self-sealing adaptor-fore-part 1.4418 QT900		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-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.

Attention: GG and SI cannot be combined = Special version - please enquire

Attention: Self-sealing coupling + OV $\triangleq$ Product type Thru-type coupling; Self-sealing adaptor + OV $\triangleq$ Product type Thru-type adaptor

For example, a complete part number looks like this:

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



Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

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]



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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-...-

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Product chart | Quick coupling systems

Self-sealing adaptor / thru-type adaptor marked in blue

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-...-

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Self-sealing adaptor / thru-type adaptor marked in blue

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-...-

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Self-sealing adaptor / thru-type adaptor marked in blue

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-...-

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