

HYDROREX

Quick Couplings

Technical Datasheet



Hydrorex
17560 Telge Rd
Cypress TX USA 77429



VVS-Series: Stainless-Marine Offshore- Antivibration



CQD Series: Stainless All Industrial Applications



FF-HP-SS Series: Stainless Flush Face



HNV-SS Series: Stainless Push/Pull

QD's Pressures & Testing



HNV-B Series: Brass Push/Pull



FF-GP Series: Carbon Steel Push/Pull



PSV Series: Carbon Steel Screw Type



TNV Series: Carbon Steel Push/Pull

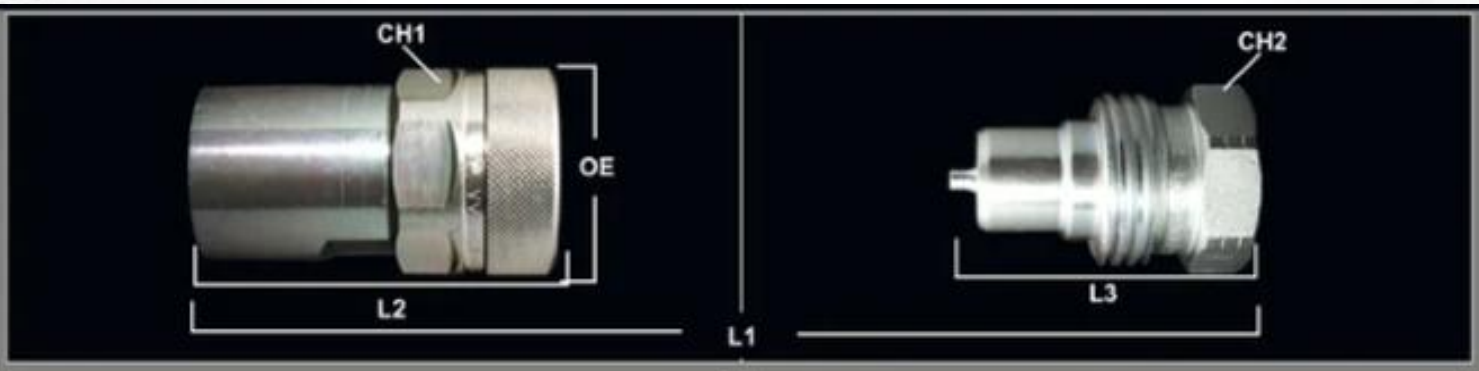
VVS Series

High Pressure - Screw Type

Stainless Steel 316

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- Low pressure drop
- Connect under pressure up to 3,000 PSI
- Thread to connect couplings eliminates brinelling
- Used in a wide range of industrial markets where connecting and disconnecting of hydraulic circuits is needed
- High pressure valved applications
- Wireline applications
- High impulse applications
- High vibration

MATERIALS

Body:	High Resistant Steel
Finishing:	ZN-Fe (CRIII) Plating
Seals:	NBR standard seals
Threads:	NPT & BSPP

Interchange:
Faster VVS

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM) (Connected)	Max Working (PSI)
04	1.06	.984	1.18	3.30	2.67	1.69	2.1	10,000
06	1.42	1.26	1.57	3.54	2.95	1.89	4.8	9,425
08	1.61	1.34	1.77	4.00	3.40	2.36	7.9	8,700
12	1.96	1.80	2.16	4.77	4.22	2.72	12.0	7,250
16	2.17	1.97	2.34	5.56	5.00	3.12	28.0	6,670
20	2.95	2.56	3.15	6.57	6.02	3.39	49.0	6,670
24	3.54	3.14	3.83	7.63	6.60	3.74	79.0	5,220

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

VVS - 12 - 12 - C - NPT

VVS SERIES
High Flow, High Pressure Screw Together Coupling

Body Size	
04	1/4”
06	3/8”
08	1/2”

Body Size	
12	3/4”
16	1”
20	1-1/4”
24	1-1/2”

Thread Size	
04	1/4”
06	3/8”
08	1/2”

Thread Size	
12	3/4”
16	1”
20	1-1/4”
24	1-1/2”

Coupler / Nipple	
C	Coupler
N	Nipple

Thread Type	
NPT	NPT
BSP	BSP

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Quick Disconnect Couplings

PRESSURE SHOP / SPIR STAR offers a variety of Quick Disconnect Couplings in multiple thread styles and working pressures up to 30,000 psi.

Screw Type Quick Disconnects (no check valve) - Stainless Steel



Part Number	Description	Max Working Pressure
CQD-06-SET	3/8” NPT Female Screw Together Quick Disconnect Set	15,000 psi
CQD-08-SET	1/2” NPT Female Screw Together Quick Disconnect Set	15,000 psi
CQD-12-SET	3/4” FNPT Female Screw Together Quick Disconnect Set	15,000 psi
CQD-16-SET	1” FNPT Female Screw Together Quick Disconnect Set	12,000 psi
CQD-MP9-SET	9/16” MP Female Screw Together Quick Disconnect Set	20,000 psi





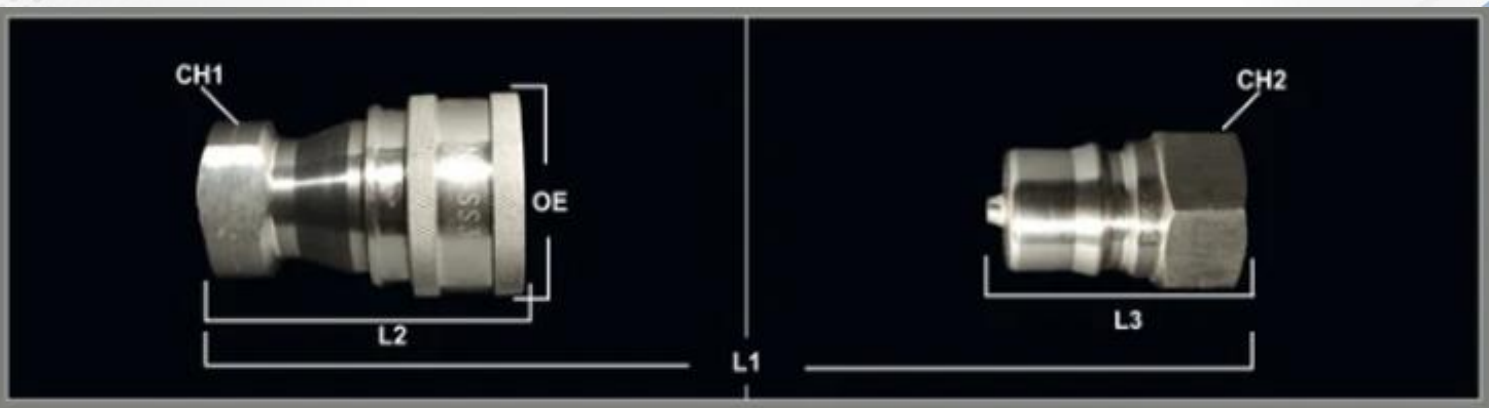
HNV Series Stainless (PBX)

ISO-7241-B

Body: 316 Stainless Steel

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- 316SS for ultimate corrosion resistance
- Radial locking balls
- Manual connect and disconnect
- Ideal for harsh environments such as offshore oil and gas markets
- Water Applications and Chemical Applications
- Food Grade

MATERIALS

Body:	Stainless Steel
Seals:	Viton seals
Threads:	NPT

MAJOR INTERCHANGES

Parker 60	Faster HN
Tomco THK	Aeroquip FD45
Dixon H	SnapTite 72
Stucchi IRB	Safeway S10

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM) (Connected)	Max Working (PSI)
04	.75	.66	1.10	2.92	2.29	1.60	3.17	5,000
06	.82	.82	1.36	3.23	2.60	1.77	6.08	4,300
08	1.13	1.13	1.76	3.56	2.89	1.90	12	4,300
12	1.37	1.37	2.10	4.15	3.45	2.35	28	3,000
16	1.60	1.65	2.56	4.96	4.07	2.74	50	2,800

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

HNV - SS316 - 12 - 12 - C - BSP

HNV-SS SERIES
ISO 7241 - B 316 SS

Material	
SS316	316 Stainless Steel

Body Size	
04	1/4”
06	3/8”
08	1/2”

Body Size	
12	3/4”
16	1”

Thread Size	
04	1/4”
06	3/8”
08	1/2”

Thread Size	
12	3/4”
16	1”

Coupler / Nipple	
C	Coupler
N	Nipple

Thread Type	
NPT	NPT

HNV Brass Series (PBV1)

ISO-7241-B Industrial Interchange

Body: Brass

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- Brass material for corrosion resistance
- Radial locking balls
- Manual connect and disconnect
- Hydraulic fluids
- Water
- Diesel / Petroleum

MATERIALS

Body:	Brass
Seals:	NBR standard seals
Threads:	NPT

MAJOR INTERCHANGES

Parker 60	Faster HN
Tomco THK	Aeroquip FD45
Dixon H	SnapTite 72
Stucchi IRB	Safeway S10

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM) (Connected)	Max Working (PSI)
04	.75	.75	1.10	3.01	2.36	1.50	3.17	3,000
06	.87	.87	1.38	3.37	2.65	1.67	6.08	3,000
08	1.06	1.06	1.73	3.80	2.98	1.89	12	2,600
12	1.34	1.34	2.05	4.51	3.60	2.24	28	2,000
16	1.61	1.61	2.36	5.20	4.17	2.58	50	2,000

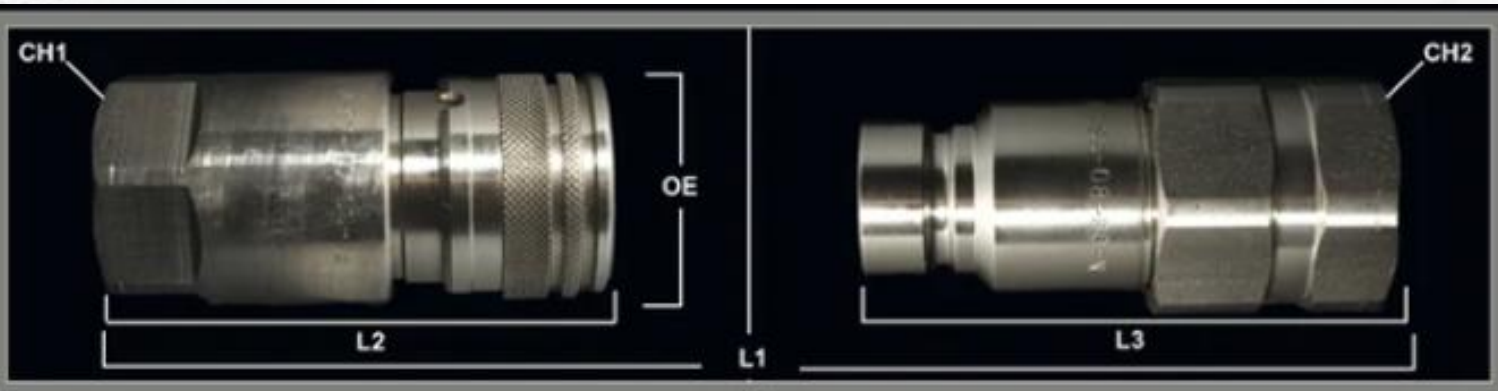
FF-HP-SS Series

ISO 16028 - Flush Face - Push to Connect

Stainless Steel 316

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- High working pressures up to 4,350 PSI
- Sleeve locking device
- Locking radial balls
- Connection under pressure not allowed
- FF-HP-SS series is ideal for markets where flat face, non-spill couplings are a must.
- Food grade
- Offshore oil & gas
- Petro-chemical

MATERIALS

Body:	316 Stainless Steel
Seals:	FKM seals (Viton)
Threads:	NPT, SAE, & BSP

MAJOR INTERCHANGES

Parker FE	Faster FF / 2FFI
Tomco FE	Aeroquip FD89
Perfecting HT	Snap Tite 74
Stucchi FL	

Key Note:

- Color Safe System options available

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM)	Max Flow Rate (GPM)	Max Working (PSI)
04	.87	.87	1.10	4.25	2.32	2.36	3.17	6.34	4,350
06	1.06	1.06	1.26	4.98	2.87	2.74	6.08	12.15	3,625
08	1.42	1.42	1.50	5.94	3.43	3.21	12	23.78	3,625
10	1.42	1.42	1.65	5.96	3.39	3.27	20	39.63	3,625
12	1.61	1.61	1.89	6.54	3.84	3.56	28	52.83	3,625
16	1.97	1.97	2.17	7.15	4.31	3.74	50	73.97	3,625

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

FF-HP - SS - 08 - 08 - C - NPT

FF-HP-SS SERIES
ISO 16028 Flush Face High Pressure

Material	
(blank)	Carbon Steel
SS	316 Stainless Steel

Body Size	
04	1/4”
06	3/8”
08	1/2”
10	5/8”
12	3/4”
16	1”

Thread Size	
04	1/4”
06	3/8”
08	1/2”
10	5/8”

Thread Size	
12	3/4”
16	1”
20	1-1/4”

Coupler / Nipple	
C	Coupler
N	Nipple

Thread Type	
NPT	NPT

FF-GP Series

ISO 16028 - Flush Face - Push to Connect

Carbon Steel

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- Push to connect
- Connection under pressure not allowed
- Sleeve lock device
- Locking radial balls
- FF-GP series is ideal for markets where flat face, non-spill couplings are a must.
- Skid steers, skid steer attachments, agricultural, construction, forestry, oil & gas and more.

MATERIALS

Body:	Carbon Steel
Finishing:	ZN-Fe (CR111)
Seals:	NBR standard seals
Threads:	NPT & BSP

MAJOR INTERCHANGES

Parker FE	Faster 2FFI
Tomco FE	Aeroquip FD89
Perfecting HT	Snap Tite 74
Stucchi A & FIRG	

Key Note:

- **Color Safe System options available**

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM)	Max Flow Rate (GPM)	Max Working (PSI)
04	.87	.87	1.10	4.00	2.30	2.11	3.17	6.34	4,630
06	1.06	1.06	1.26	4.57	2.66	2.50	6.08	12.15	3,675
08	1.26	1.26	1.50	5.39	3.31	2.99	12	23.78	3,675
12	1.81	1.61	1.89	6.20	3.70	3.39	28	52.83	3,675
16	1.97	1.97	2.17	6.97	4.31	3.54	50	73.97	3,675
24	2.76	2.76	3.11	8.27	4.67	4.70	100	184.92	3,675
32	3.15	3.15	4.06	11.42	5.81	6.81	200	264.17	3,675

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

FF-GP - 08 - 08 - C - NPT

FF-GP SERIES
ISO 16028 Flush Face General Purpose

Body Size	
04	1/4”
06	3/8”
08	1/2”
12	3/4”

Body Size	
16	1”
24	1-1/2”
32	2”

Thread Size	
04	1/4”
06	3/8”
08	1/2”
12	3/4”

Thread Size	
16	1”
20	1-1/4”
24	1-1/2”
32	2”

Coupler / Nipple	
C	Coupler
N	Nipple

Thread Type	
NPT	NPT
BSP	British Standard Parallel

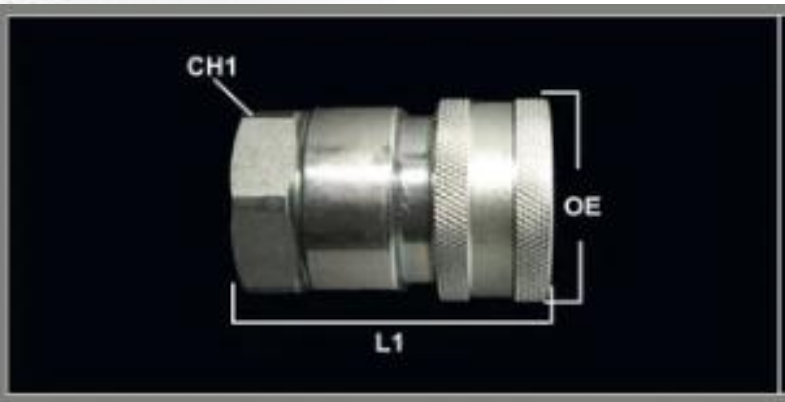
TNV Series

General Porpuse

Body: Carbon Steel

Sizes: 1/4” Thru 1” FNPT

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Features and Applications

- Manual connect and disconnect
- Primary uses are Machine Tools, Test Equipment and Oilfield Service Equipment

MATERIALS

Body:	Carbon Steel
Finishing:	ZN-Fe (CRIII)
Seals:	NBR standard seals
Threads:	NPT

MAJOR INTERCHANGES

Faster TNV Dixon V
SnapTite H

DIMENSIONAL & PRESSURE RATING DATA

Body Size	CH1	CH2	OE	L1	L2	Optimal Flow Rate (GPM) (Connected)	Max Working (PSI)
04 (female thread)	.88	.88	.99	1.68	1.62	4.5	3,916
04 (male thread)	.88	.88	.99	2.12	2.06	4.5	3,916
06	1.00	1.00	1.18	1.94	1.87	6.5	4,357
08	1.19	1.19	1.36	2.13	1.99	17	3,150
12	1.50	1.50	1.67	2.47	2.31	35	2,700
16	1.88	1.88	2.06	2.70	2.60	43	2,000
20	2.0	2.0	2.19	3.54	3.41	70	1,450
24	2.5	2.5	2.74	3.27	3.10	107	1,500
32	3.5	3.5	3.83	3.92	3.72	195	1,500

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

TNV - 12 - 12 - C - M - NPT

TNV SERIES
General Purpose Oilfield Coupler

Body Size	
04	1/4”
06	3/8”
08	1/2”
12	3/4”

Body Size	
16	1”
20	1-1/4”
24	1-1/2”
32	2”

Thread Size	
04	1/4”
06	3/8”
08	1/2”
12	3/4”

Thread Size	
16	1”
20	1-1/4”
24	1-1/2”
32	2”

Coupler / Nipple	
C	Coupler
N	Nipple

Thread Gender	
(blank)	Female
M	Male

Thread Type	
NPT	NPT

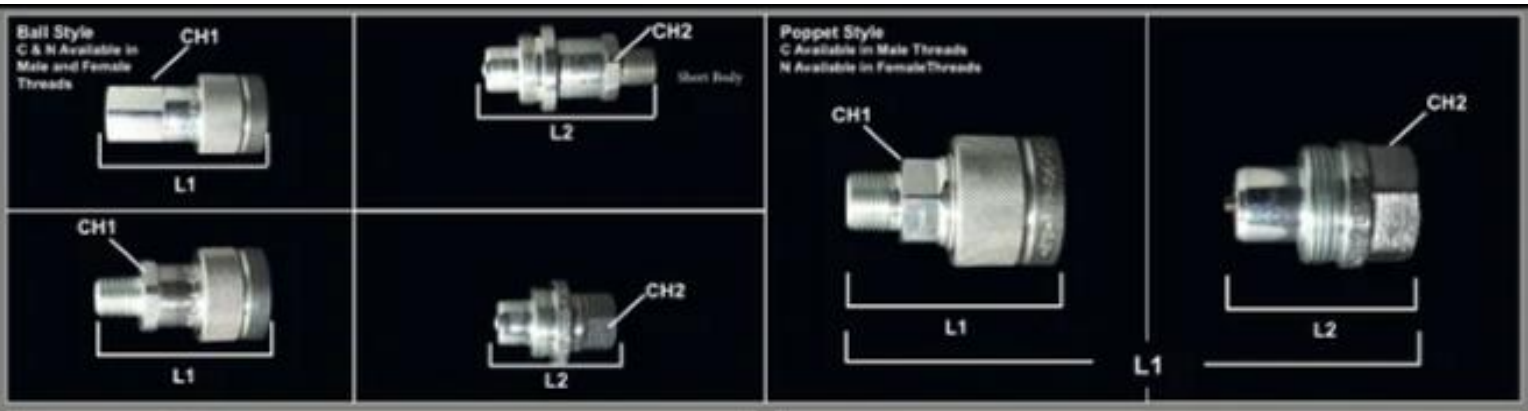
PVS (PVM) Series

High Pressure Screw Type

Body: Carbon Steel

Sizes: 1/4” Thru 3/8” FNPT

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Features and Applications

- High Pressure Jacks
- Torque Equipment
- 10,000 PSI
- Ball style / Poppet style

MATERIALS

Body:	High Resistant Steel
Finishing:	ZN-Fe (CRIII) Plating
Seals:	NBR standard seals
Threads:	NPT & BSPP

Interchanges:

Parker 3000	Stucchi IVHP
Dixon T	Safeway S30

DIMENSIONAL & PRESSURE RATING DATA

Male Threads

Body Size	CH1	CH2	OE	L1	L2	L3	Optimal Flow Rate (GPM)	Max Flow Rate (GPM)	Max Working (PSI)
04 (ball)	.866	.75	1.181	2.09	1.54	3.30	1.32	2.64	10,450
04 (poppet)	.866	.75	1.181	2.04	1.60	3.18	1.32	2.64	10,450
06 (ball)	.94	1.26	1.38	2.44	1.60	3.58	2.38	5.28	10,450
06 (poppet)	.94	1.26	1.38	2.19	1.67	2.87	2.38	5.28	10,450

Female Threads

04 (ball)	.87	.75	1.181	2.20	1.54	3.30	1.32	2.64	10,450
06 (ball)	.94	1.26	1.38	2.62	1.60	3.76	2.38	5.28	10,450

units: inches

ORDERING INFORMATION

QUICK COUPLING PART NUMBERING SYSTEM:

PVS - 04 - 04 - C - F - NPT

PVS/PVP SERIES	
PVS	Porta Power Coupling (Ball Style)
PVP	Porta Power Coupling (Poppet Style)

Body Size	
04	1/4”
06	3/8”

Thread Size	
04	1/4”
06	3/8”

Coupler / Nipple	
C	Coupler
N	Nipple

Coupler Thread Gender	
(blank)	Male Thread
F	Female Thread

Nipple Thread Gender	
SM	Short Body
(blank)	Female Thread

Thread Type	
NPT	NPT