



MECHANICAL SYSTEM



HYDRAULIC SYSTEM



HYDRAULIC SYSTEM



HYDRAULIC ADAPTER



MECHANICAL SYSTEM

The EuropCorr® standard high pressure access fittings permit access to systems under full operating pressure, eliminating any need of system shut-down. The access fittings allow safe and easy insertion and retrieval of corrosion monitoring devices by means of a service valve and retrieval tool.

The high pressure access fitting assemblies for installation of corrosion probes, corrosion coupons, sacrificial sand probe and chemical injection/sampling devices, are designed in different mounting types: Welded (Flareweld, Buttweld, Socketweld), Threaded NPT, Flanged and Trapped. Access fittings can be mounted at any position of the pipeline that local operating conditions permit. Trap fittings are usually mounted underneath of the pipeline for gathering samples of the liquids and residues that exist along the bottom of pipeline. Monitoring through traps simulates the corrosive conditions of stagnant locations that may exist in the pipeline.

Access fittings may even be installed under system pressure with the use of a hot tap tool.

The mechanical access fitting is also available as side Tee type for sacrificial type sand probes or chemical injection/sampling equipment.

HYDRAULIC SYSTEM

The EuropCorr® high pressure two inch hydraulic access fittings have the advantage of no internal threads thus avoiding galling problem which is common with mechanical system. The hydraulic system requires less operational clearance when retrieving due to the very small size hydraulic retrieval tool compared to a mechanical retrieval tool which is almost double the size.

Hydraulic access fittings come in different mounting types: Welded (Flareweld, Buttweld), Threaded NPT, Flanged and Trapped. Four locking pins hold the internal plug in position during retrieval operations.

The hydraulic system has the following advantages with comparison to the traditional mechanical system:

- no internal threads
- low weight and small size retrieval tool
- less operational clearance
- no external moving parts of the retrieval tool
- increased safety during retrieval operation

The Hydraulic access fittings are also available as side Tee type access fittings for sacrificial type sand probes or chemical injection/sampling equipment.

Hydraulic adapters can be provided to convert the existing two inch mechanical system into 2 inch hydraulic system for a safer and more reliable operation, such converting can be done without having a shutdown.

EuropCorr® Two Inch High Pressure

Access Fitting Assemblies

ORDERING INFORMATION:

Body Style	Part No.		Height [mm /inch]		Weight [kg/lbs]		Pressure rating [bar/psi]
	Hydraulic	Mechanical	Hydraulic	Mechanical	Hydraulic	Mechanical	
Flareweld							
2x2 (for 2" line)	111102	211102	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
3x2 (for 3" line)	111103	211103	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
4x2 (for 4" line)	111104	211104	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
6x2 (for 6" line)	111106	211106	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
8-10x2 (for 8-10" line)	111108	211108	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
12-18x2 (for 12-18" line)	111112	211112	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
20-36x2 (for 20-36" line)	111120	211120	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
Flat	111101	211101	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.5 / 5.5	420 / 6090
Buttweld							
Buttweld	112101	212101	164.1/6.46	133.4 / 5.25	7.5 / 16.5	2.1 / 4.6	420 / 6090
Socketweld							
3000 psi	n/a	213101	n/a	133.4 / 5.25	n/a	1.9 / 4.2	207 / 3000
6000 psi	n/a	213102	n/a	158.8 / 6.25	n/a	2.1 / 4.6	414 / 6000
NPT							
3000 psi	114101	214101	164.1/6.46	133.4 / 5.25	6.7 / 14.8	1.7 / 3.7	207 / 3000
6000 psi	114102	214102	189.5/7.46	158.8 / 6.25	6.9 / 15.2	2.0 / 4.4	414 / 6000
Flanged, ANSI							
150 LBS RF	115101	215101	165/6.5	133.4 / 5.25	9.0 / 19.8	4.5 / 9.9	19.6 / 285
300 LBS RF	115102	215102	165/6.5	133.4 / 5.25	9.5 / 20.9	5.0 / 11.0	51 / 740
4/600 LBS RF	115103	215103	190/7.5	158.8 / 6.25	11.5 / 25.4	6.8 / 15.0	102 / 1480
9/1500 LBS RF	115104	215104	190/7.5	158.8 / 6.25	18.0 / 39.7	12.7 / 28.0	255.5 / 3705
2500 LBS RF	115105	215105	190/7.5	158.8 / 6.25	24.5 / 54.0	18.0 / 39.7	425.5 / 6170
150 LBS RTJ	115106	215106	165/6.5	133.4 / 5.25	9.0 / 19.8	4.5 / 9.9	19.6 / 285
300 LBS RTJ	115107	215107	165/6.5	133.4 / 5.25	9.5 / 20.9	5.0 / 11.0	51 / 740
4/600 LBS RTJ	115108	215108	190/7.5	158.8 / 6.25	11.5 / 25.4	6.8 / 15.0	102 / 1480
9/1500 LBS RTJ	115109	215109	190/7.5	158.8 / 6.25	18.0 / 39.7	12.7 / 28.0	255.5 / 3705
2500 LBS RTJ	115110	215110	190/7.5	158.8 / 6.25	24.5 / 54.0	18.0 / 39.7	425.5 / 6170
Flanged, API							
2000 LBS RJ	n/a	216101	n/a	158.8 / 6.25	n/a	6.8 / 15.0	138 / 2000
3/5000 LBS RJ	n/a	216102	n/a	158.8 / 6.25	n/a	12.7 / 28.0	345 / 5000
10000 LBS RJ	n/a	216103	n/a	158.8 / 6.25	n/a	18.0 / 39.7	690 / 10000

Spare Parts	Part No.	Material
Locking pin for Hydraulic access fitting	117001	45H
Locking pin o-ring	117002	Viton

* Special material for o-ring available on request to meet special service condition.
 Temperature Rating: - 20 °F (- 28.9 ° C) to + 392 °F (200 °C)
 Access fittings in ASTM A350 LF2 have temperature rating - 45 °F (- 49 ° C) to + 392 °F (200 °C)
 Pressure rating 6000 PSI (420 BAR)
 Material selection meets NACE MRO175/ISO 15156

Various alloys available for Access Fittings body to meet client's design requirements and specifications.
 For EU based users the equipment conforms to Pressure Equipment Directive (PED).

